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The Latest Office Features in Nextcloud Hub

Michael Meeks (Collabora Productivity)

September 16 -17, 2023 ▪ Berlin, Germany

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Michael Meeks

General Manager, Collabora Productivity

Founder, The Document Foundation

25+ years of Open Source contribution

Michael Meeks
General Manager Collabora Productivity
@michael_meeks

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SmartPicker

Pick Smartly !

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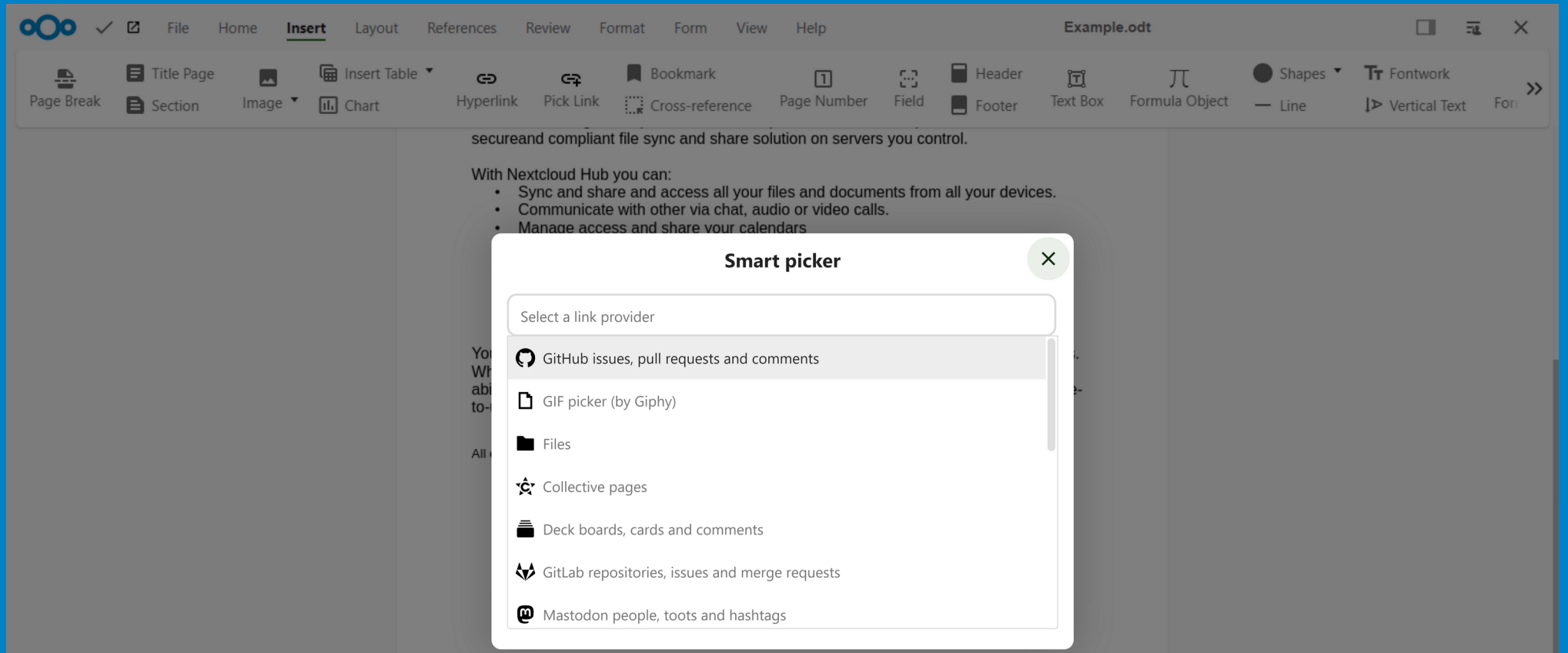
File
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Review
Format
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Example.odt
Page Break
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Bookmark
Cross-reference
Page Number
Field
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Footer
Text Box
Formula Object
Shapes
Line
Fontwork
Vertical Text
secureand compliant file sync and share solution on servers you control.
With Nextcloud Hub you can:
Sync and share and access all your files and documents from all your devices.
Communicate with other via chat, audio or video calls.
Manage access and share your calendars
Smart picker
Select a link provider
GitHub issues, pull requests and comments
GIF picker (by Giphy)
Files
Collective pages
Deck boards, cards and comments
GitLab repositories, issues and merge requests
Mastodon people, toots and hashtags

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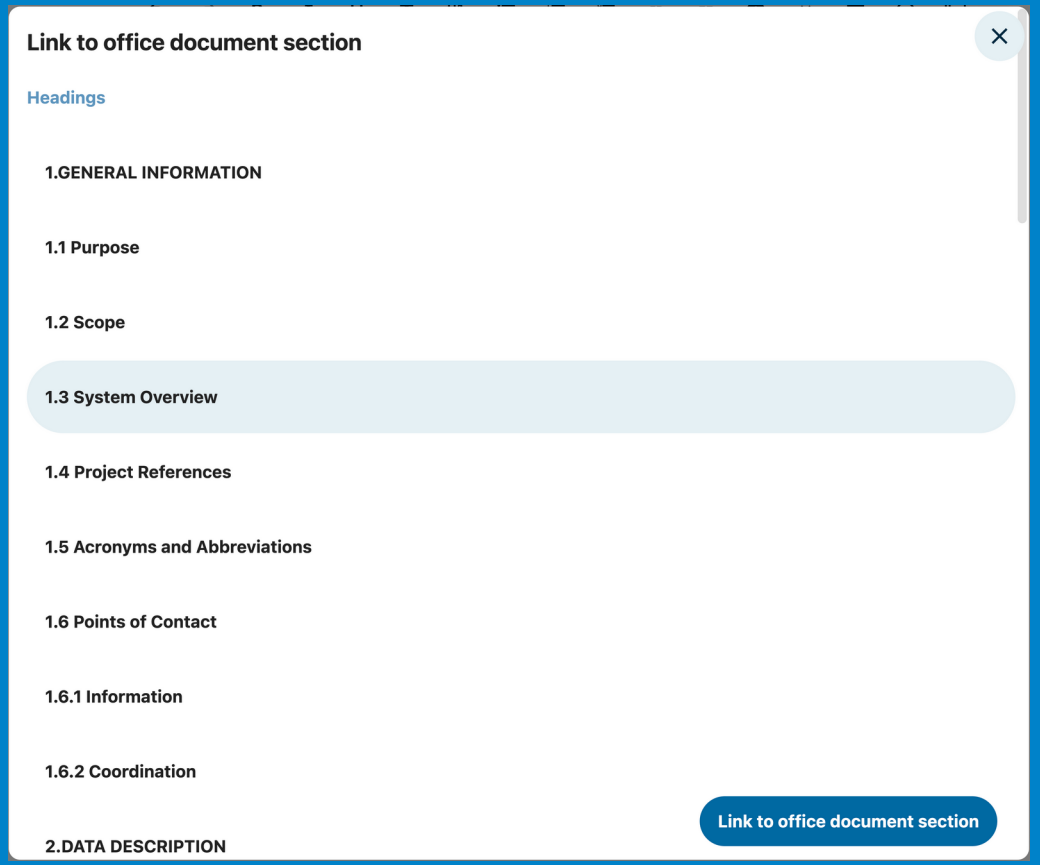
Smart Picker: Deep linking into documents

A uniquely powerful integration ...



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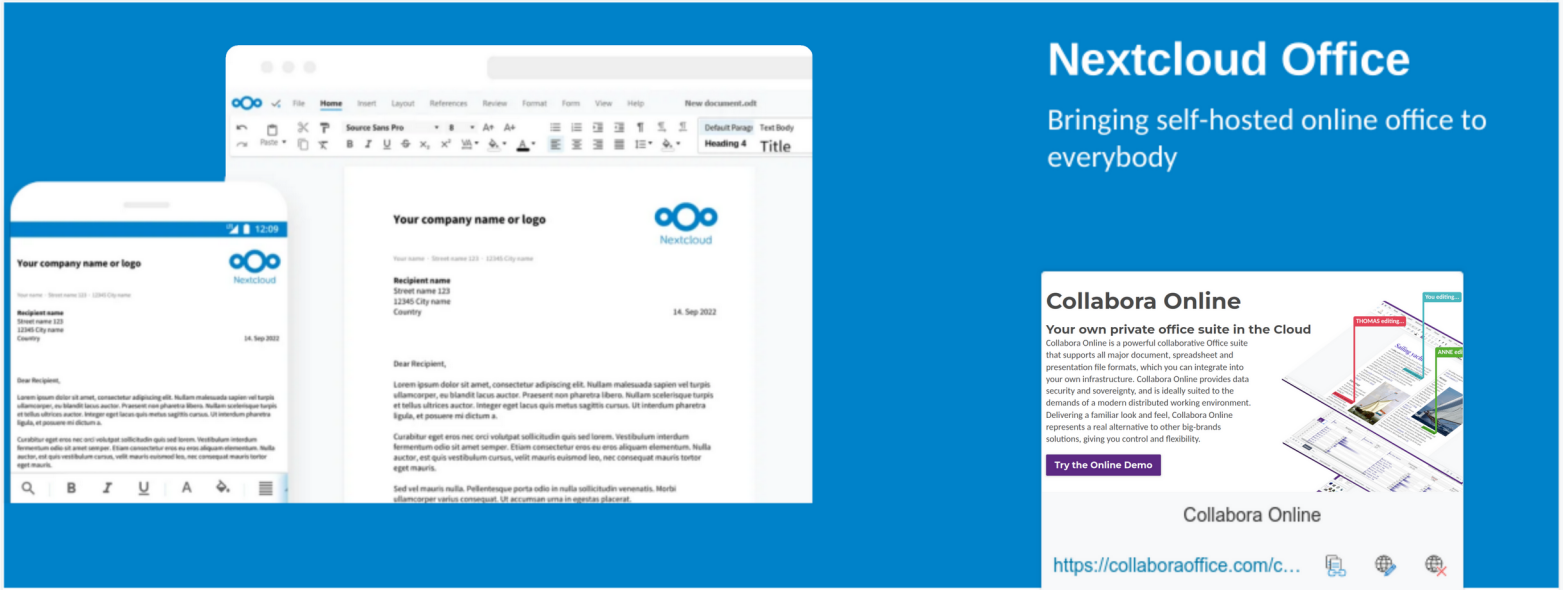
Page Break | Title Page | Section | Image | Insert Table | Chart | Hyperlink | Pick Link | Bookmark | Cross-reference | Page Number | Field | Header | Footer | Text Box | Formula Object | Shapes | Line | Fontwork | Vertical Text



Why Nextcloud Office?

Nextcloud Office is built together with Collabora Productivity. Nextcloud Office is a powerful online office suite with collaborative editing. It supports all major document, spreadsheet and presentation file formats and works in all modern browsers.

High fidelity WYSIWYG

Data under your control

Well integrated

Meeting notes – 2023-03-17

Participants: Christine Schott, Leon Green, Nina Sun, Sandra McKinney

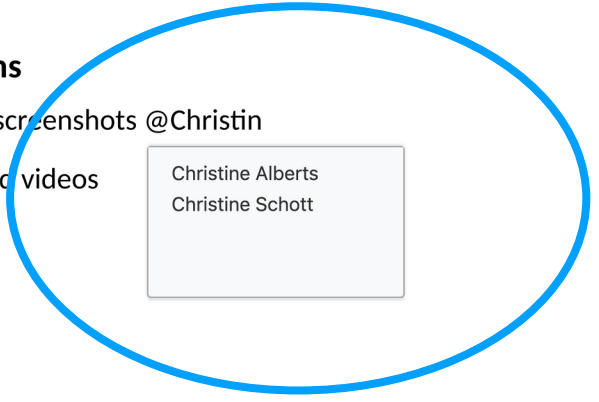
Location: Meeting room, Main Office, Berlin, Germany

Agenda

- Release marketing
- Feature status
- Keynote

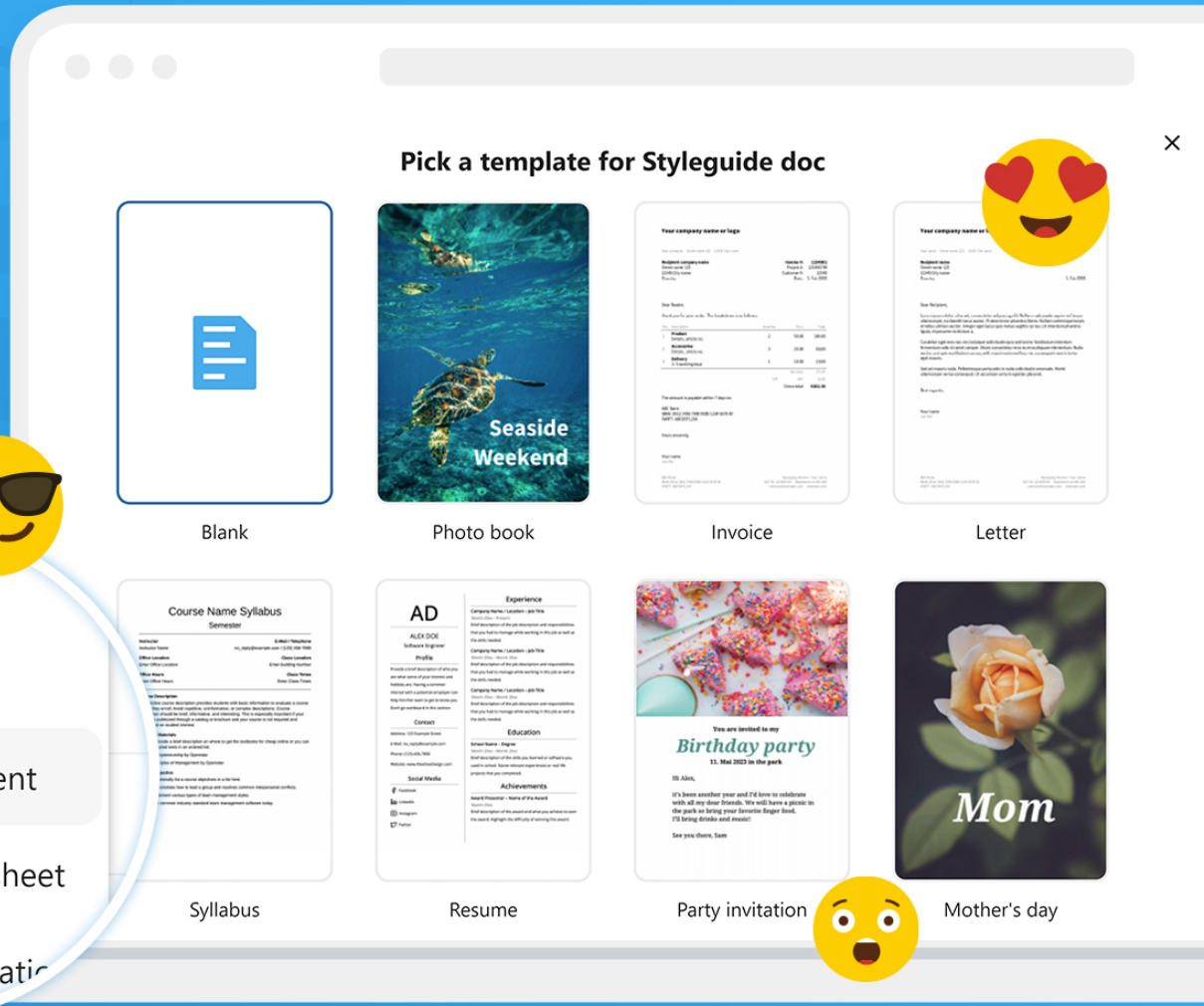
Action Items

- Take screenshots @Christin
- Record videos



Thanks to our community

Now even more document templates with Hub 5



Personal

- Personal info
- Security
- Notifications
- External storage
- Mobile & desktop
- Sharing
- Appearance and accessibility
- Groupware
- Flow
- Privacy
- Office

Extra fonts

Upload extra font file

Available fonts

AnonymousPro-Bold.ttf	Lorem ipsum
AnonymousPro-Italic.ttf	Lorem ipsum
AnonymousPro-Regular.ttf	Lorem ipsum
CutiveMono-Regular.ttf	Lorem ipsum
MajorMonoDisplay-Regular.ttf	LOREM IPSUM
Museo Sans W01 Rounded 300.ttf	Lorem ipsum
OpenSans-Italic-VariableFont_wdt...	Lorem ipsum
OpenSans-Light.ttf	Lorem ipsum
RobotoMono-Italic-VariableFont_w...	Lorem ipsum
SourceCodePro-Italic-VariableFon...	Lorem ipsum

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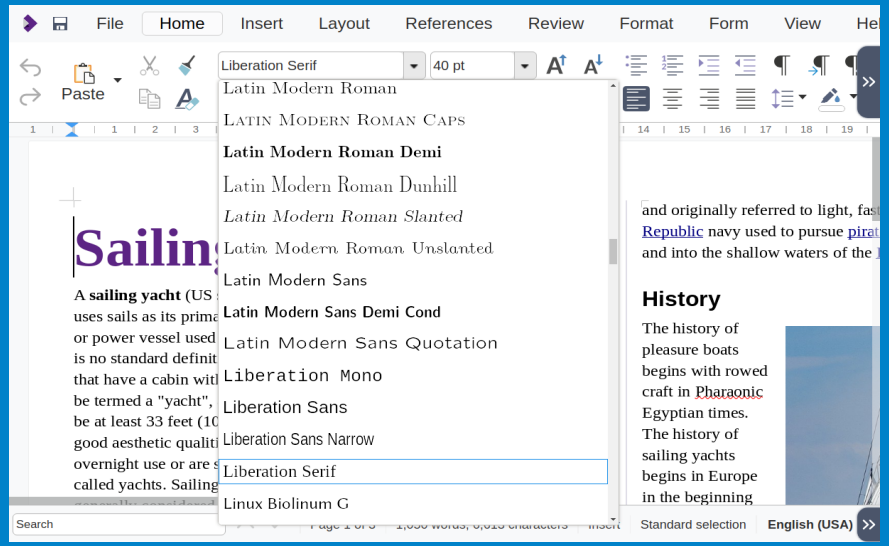
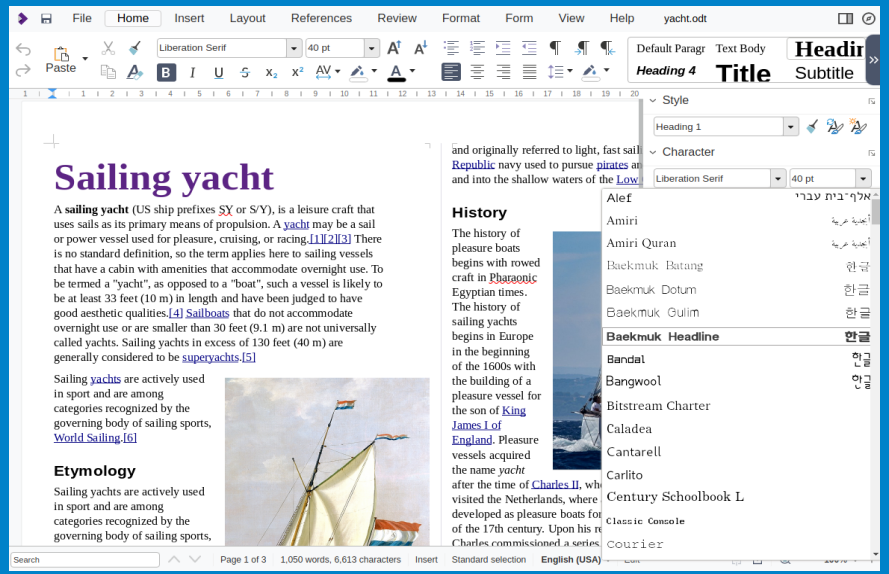
Font Previews

You can now see a preview of fonts to see what they look like before selecting it in the drop down box.





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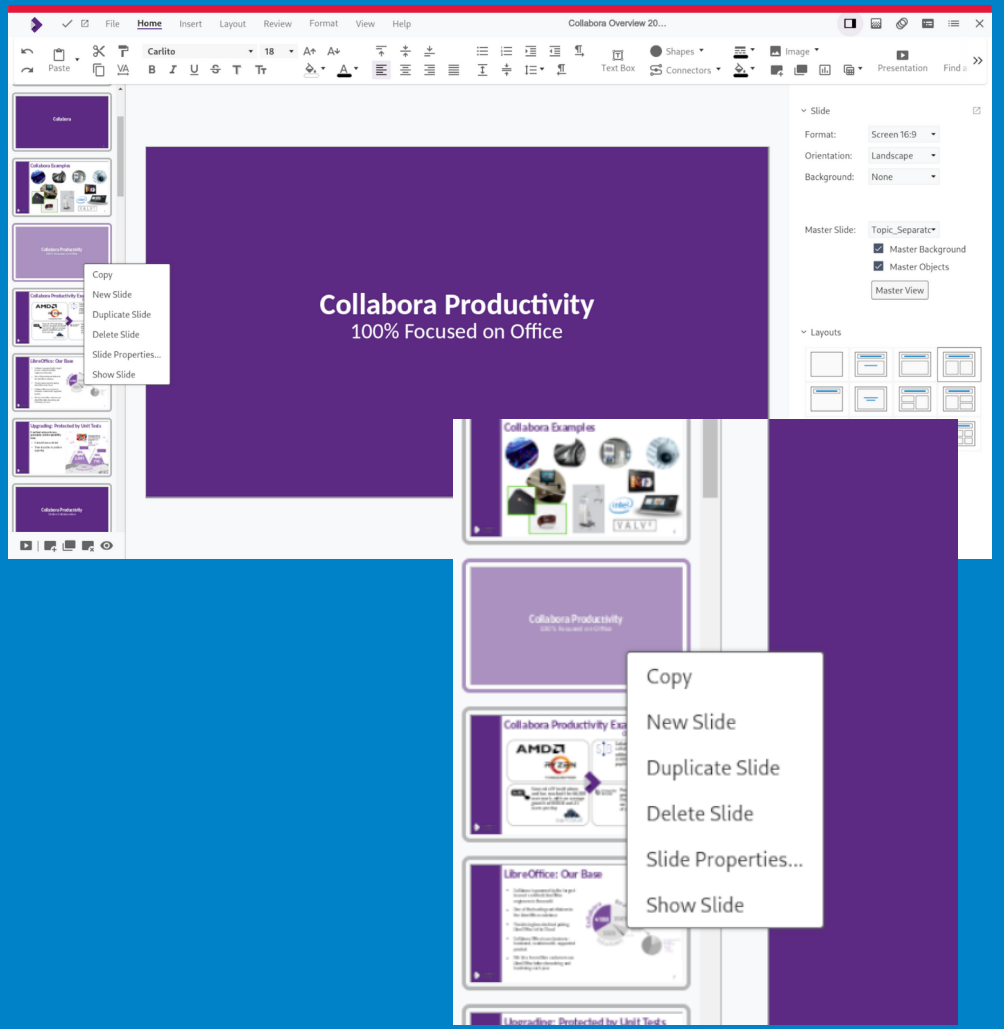
Hide / Show Slides in Impress

Impress supports hiding and showing slides on the Slide Pane by right clicking and choosing ‘Hide Slide’ or ‘Show Slide’. They will then shown or hidden throughout the full screen presentation.



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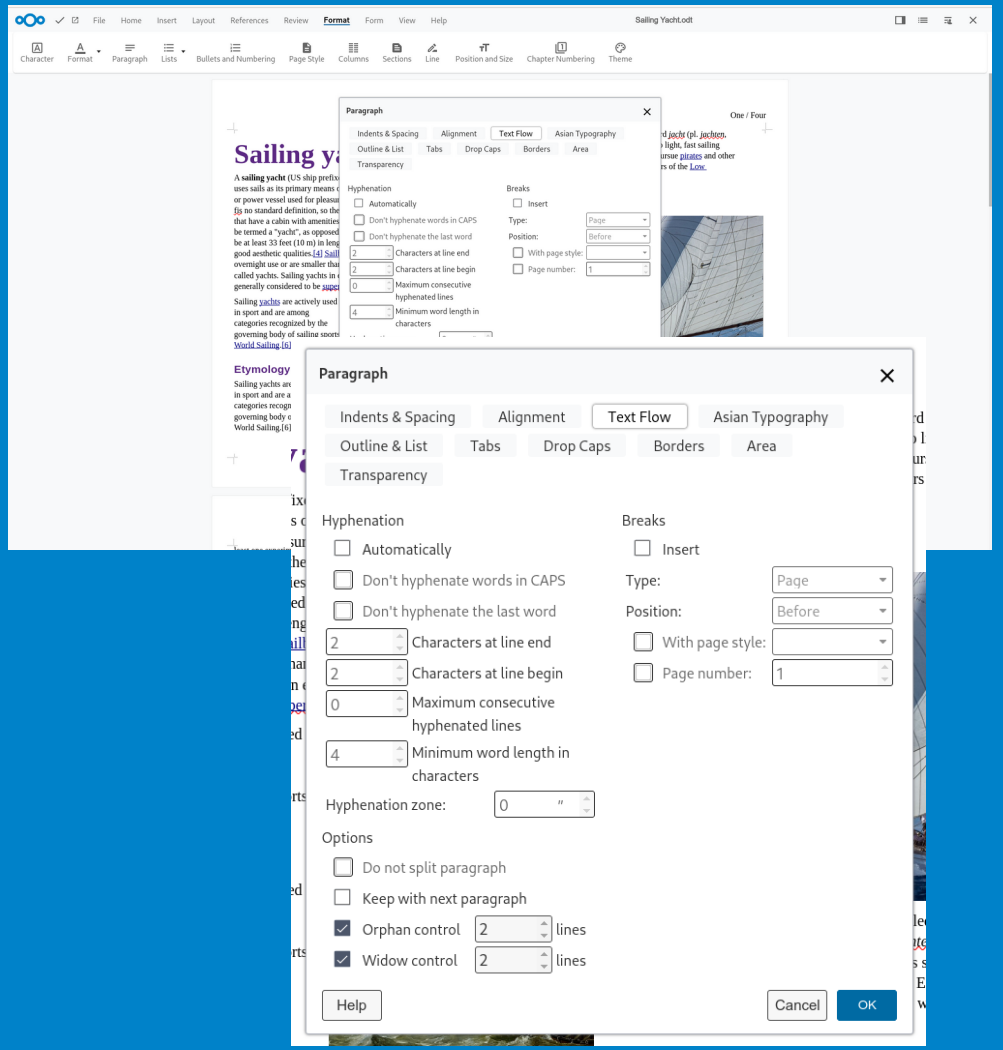
Typographical Editing

New optional hyphenation settings are available to give rules for adjusting text flow. You can now limit hyphenation within paragraphs, set a minimum word length for hyphenation and opt to not hyphenate the last word of a paragraph.

Thanks to László Németh, NISZ.



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Change Tracking in Numbered Lists

When making changes within numbered lists, the numbering has now been fixed to show actual and original numbers within the document.

Thanks to László Németh, NISZ.

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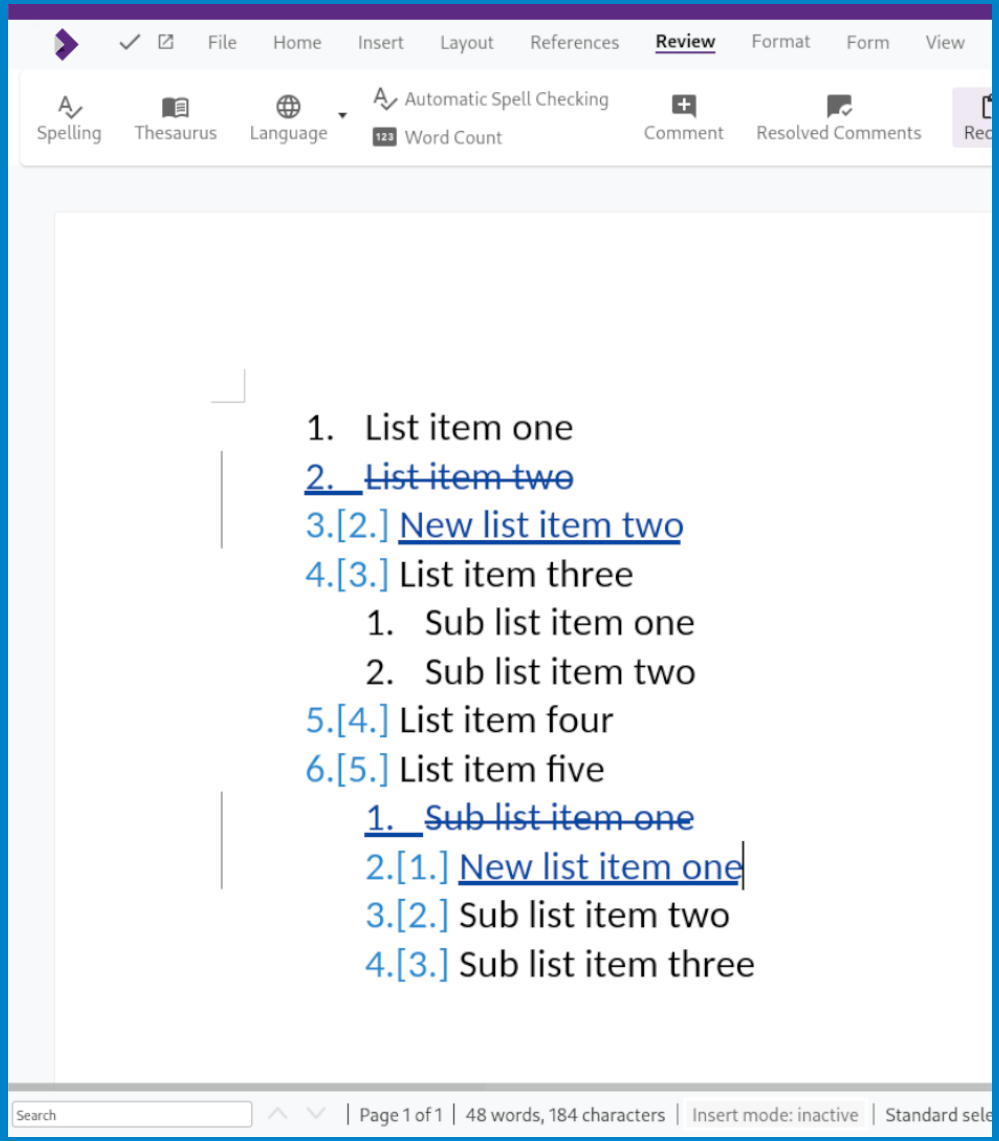

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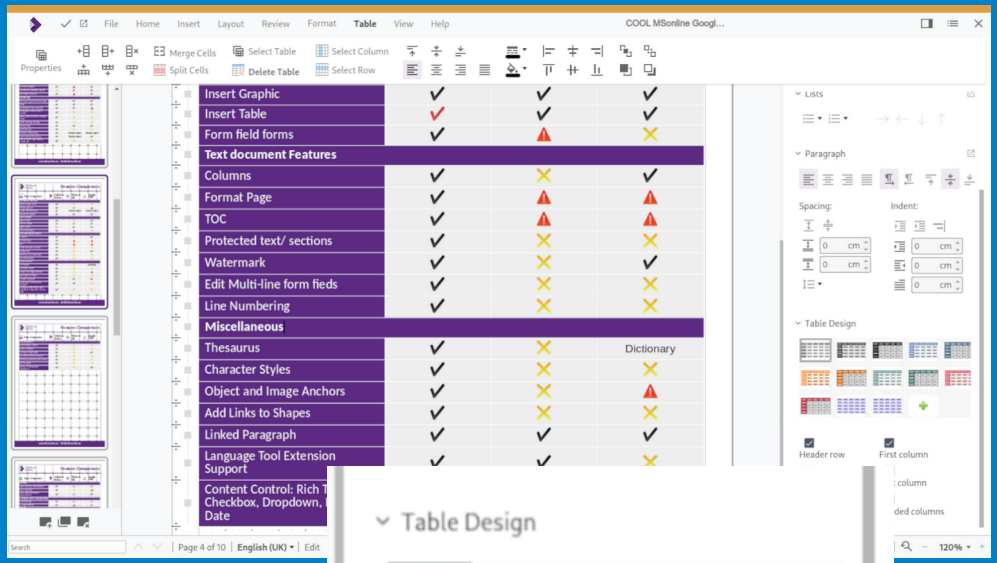
Table Style Design



You can now modify table styles and create new ones in Impress and Draw. Modified styles are saved into documents, and can be shared via templates. You can access this function by right-clicking on a design in the Table Design Sidebar panel.

Thanks to Maxim Monastirsky

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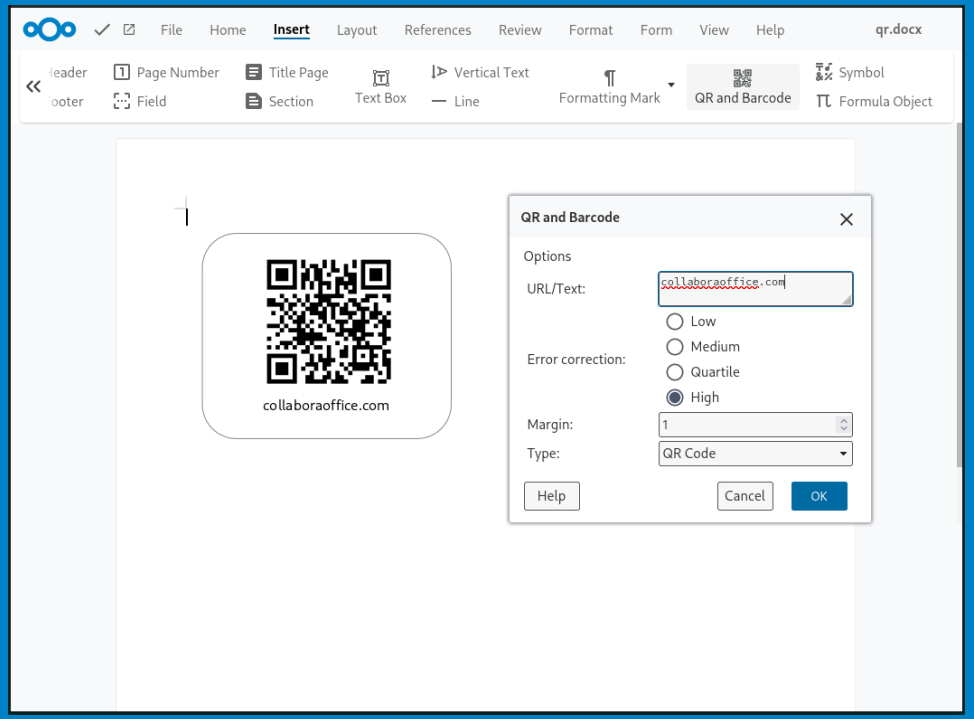
QR code generation

Bringing the existing LibreOffice technology's QR code functionality to your browser:

Thanks to Shubham Goyal and Google Summer of Code



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Accessibility Features

Bringing the goodness to everyone

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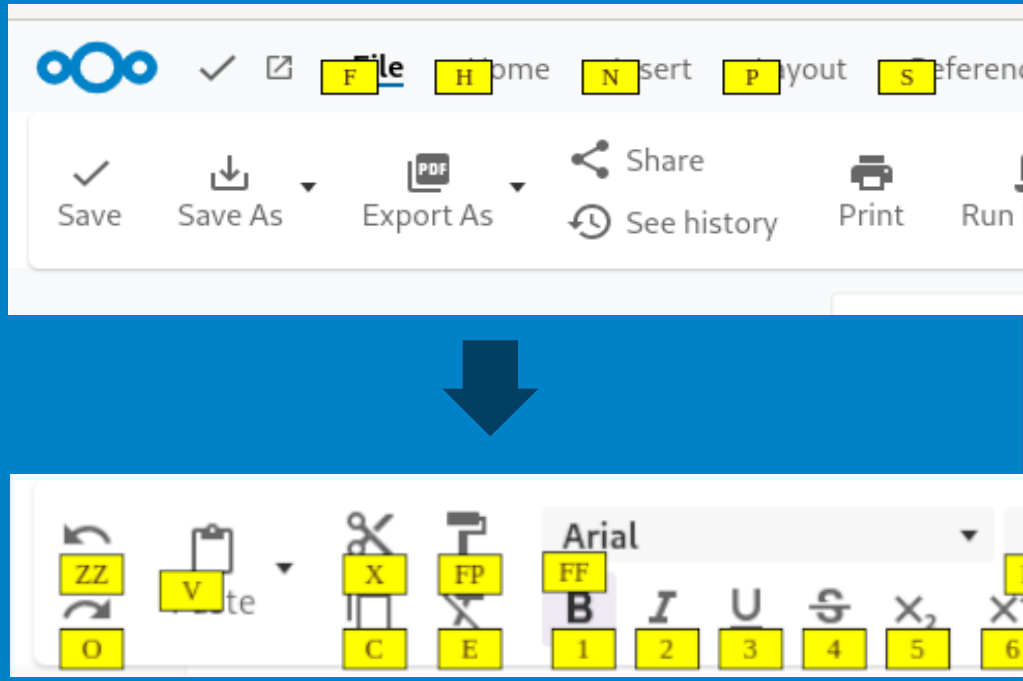
Keyboard Accelerators

Clearer overlays.

A better toolbar and overlay functions have been added to the keyboard accelerator function. Holding down the ‘Alt’ key will highlight options for learnability.



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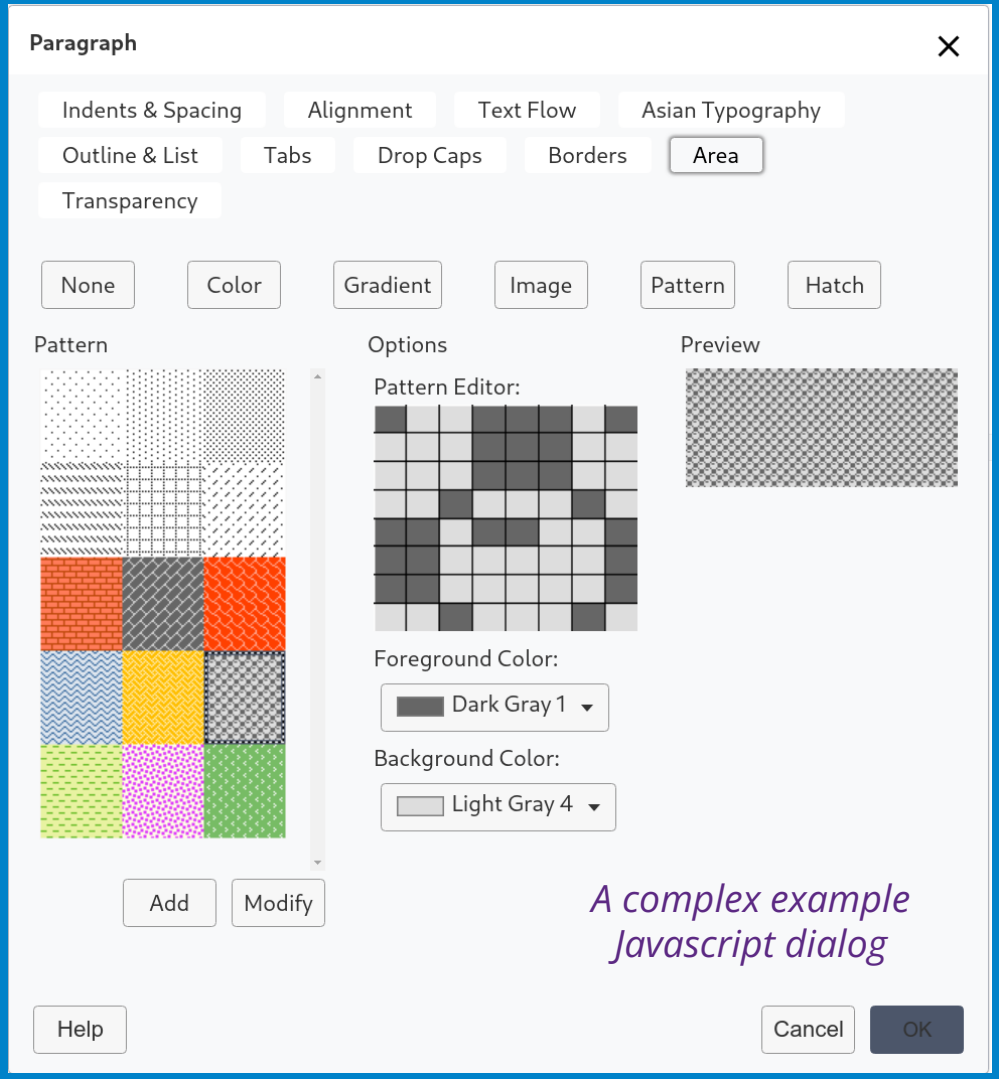
JS-Dialogs – Screen Reader Functionality

Screen readers can now access menus, toolbars and dialogs. Many more of our ~thousand dialogs are rendered on the client side using Javascript, HTML widgets with WebARIA annotation.



A complex example Javascript dialog

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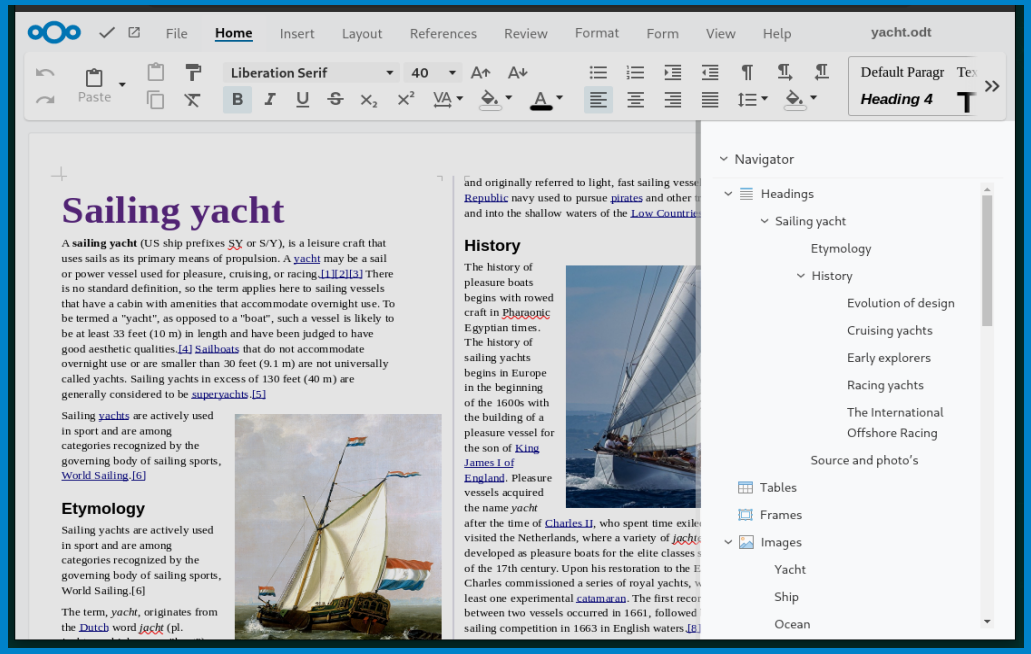
Navigator

Navigator functionality will now be viewable in the sidebar, allowing you to jump to each section by simply clicking the headings.



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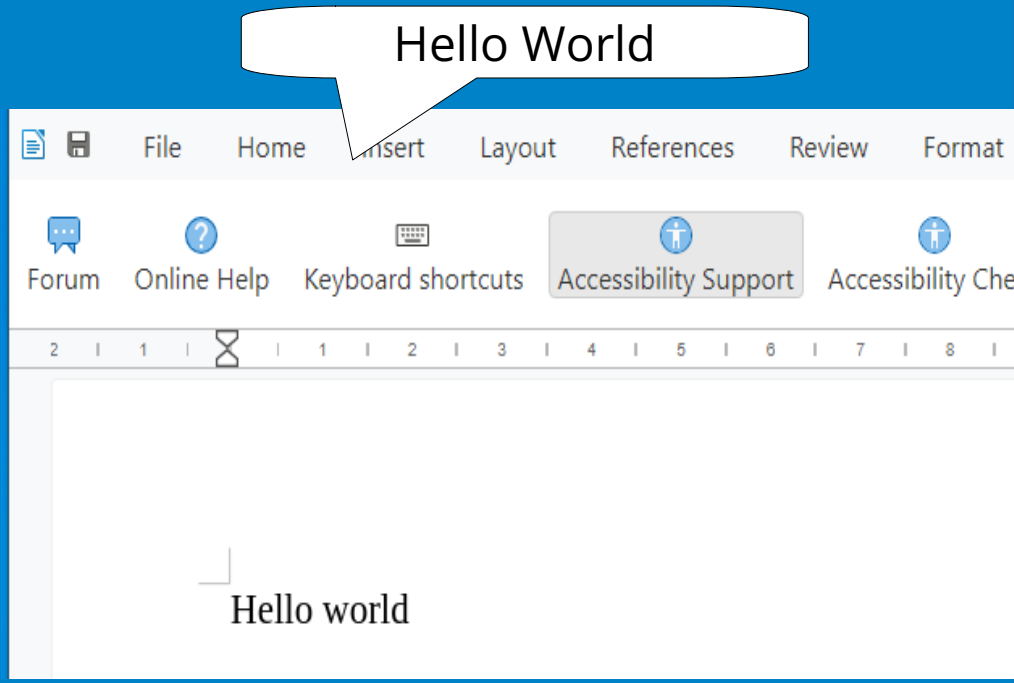
Initial Screen Reading support

Designed to assist users with visual impairments, this feature will unlock a world of possibilities, ensuring everyone can participate fully in online collaboration.

This is an initial proof of concept, that will be developed through the 23.05 lifetime.



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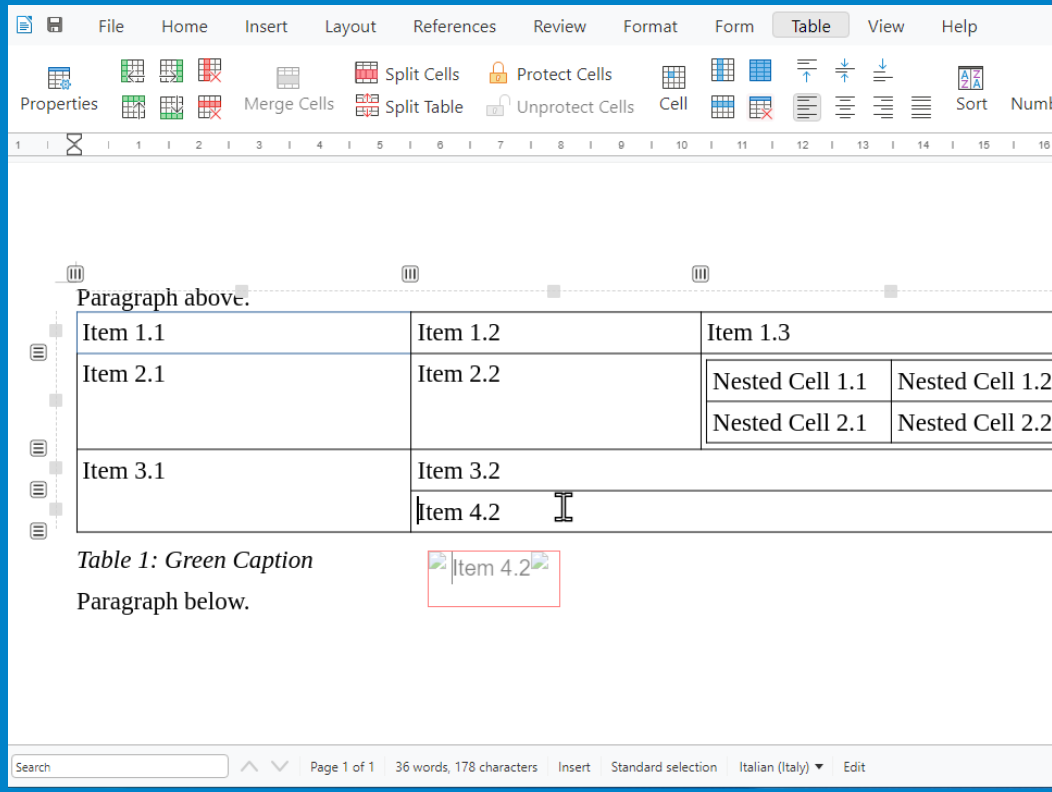
Screen reading for (nested) tables

Giving users row/column count, indexes as they navigate and span information, leaving tables.

Handling nested tables too.



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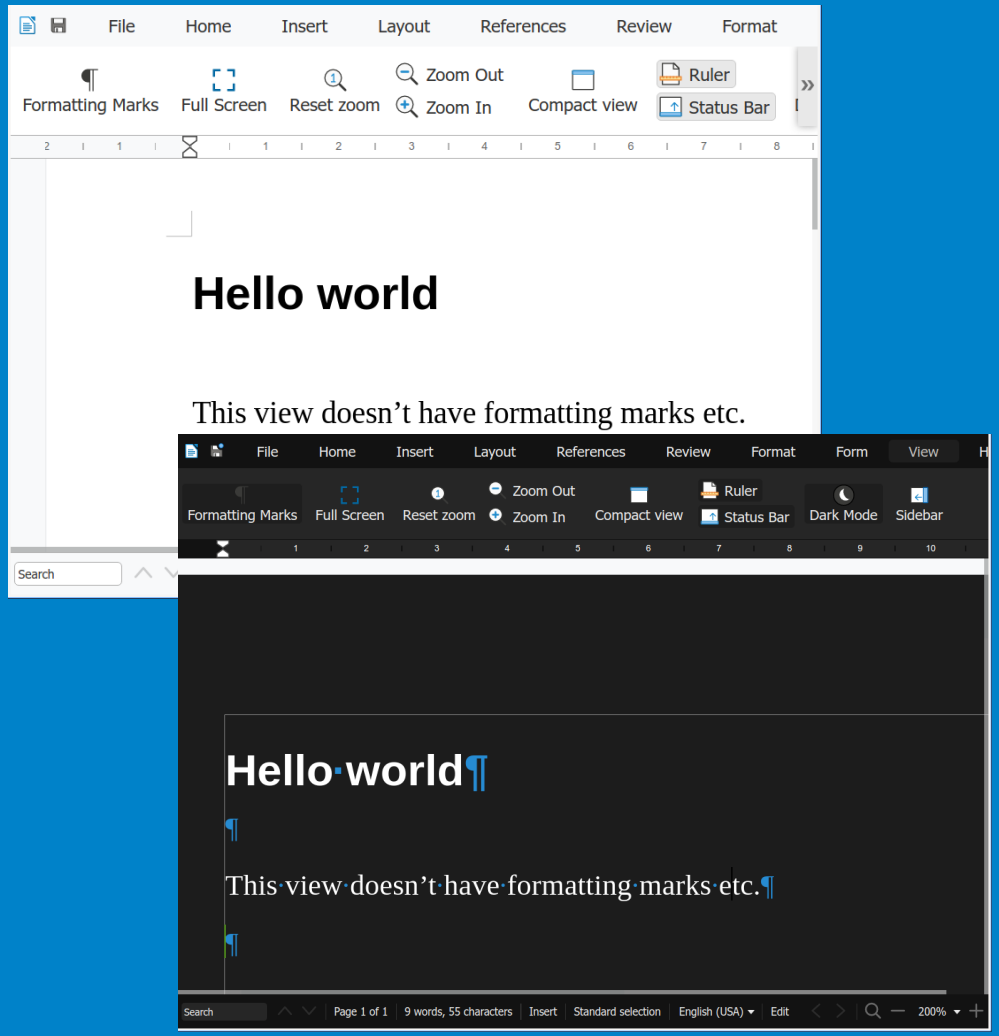
Dark Mode + View Settings

Accessibility and more options.

Per view settings, allows us to render views differently – including various options such as showing non-printing characters or spell checking underlines in different views, in addition to Dark Mode.



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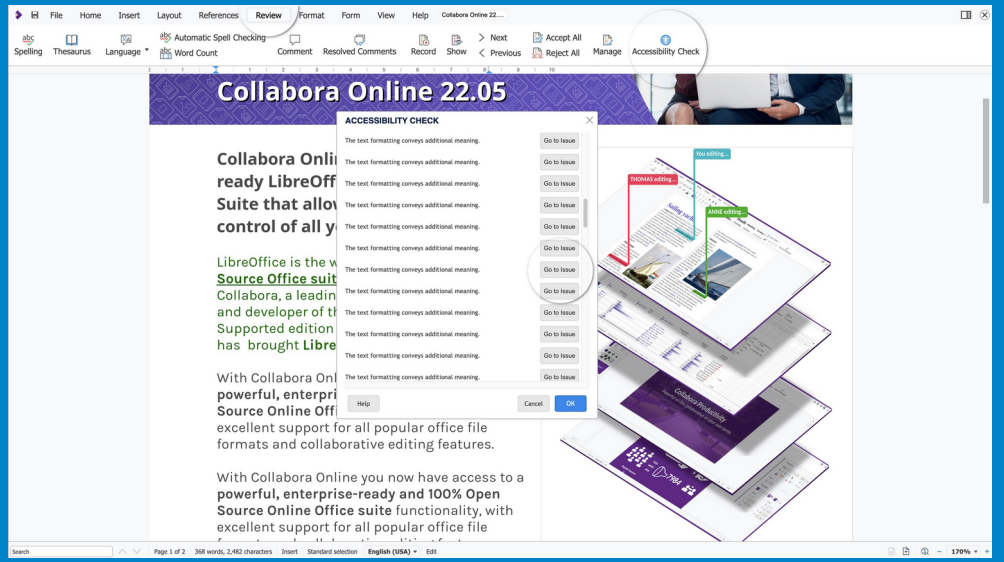
Built in Accessibility checker

Discover and fix accessibility problems in your documents before publishing them, and before your users suffer them.



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File Home Insert Layout References Review Format Form View Help Collabora Online 22....

Spelling Thesaurus Language Automatic Spell Checking Word Count Comment Resolved Comments Record Show Next Previous Accept All Reject All Manage Accessibility Check

Collabora Online 22.05

Collabora Onli
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LibreOffice is the w
Source Office suit
Collabora, a leadin
and developer of th
Supported edition
has brought **Libre**

With Collabora Onl
powerful, enterpri
Source Online Off
excellent support for all popular office file formats and collaborative editing features.

With Collabora Online you now have access to a **powerful, enterprise-ready and 100% Open Source Online Office suite** functionality, with excellent support for all popular office file

ACCESSIBILITY CHECK

The text formatting conveys additional meaning.	Go to Issue
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The text formatting conveys additional meaning.	Go to Issue

Help Cancel OK

Search Page 1 of 2 368 words, 2,482 characters Insert Standard selection English (USA) Edit 170%

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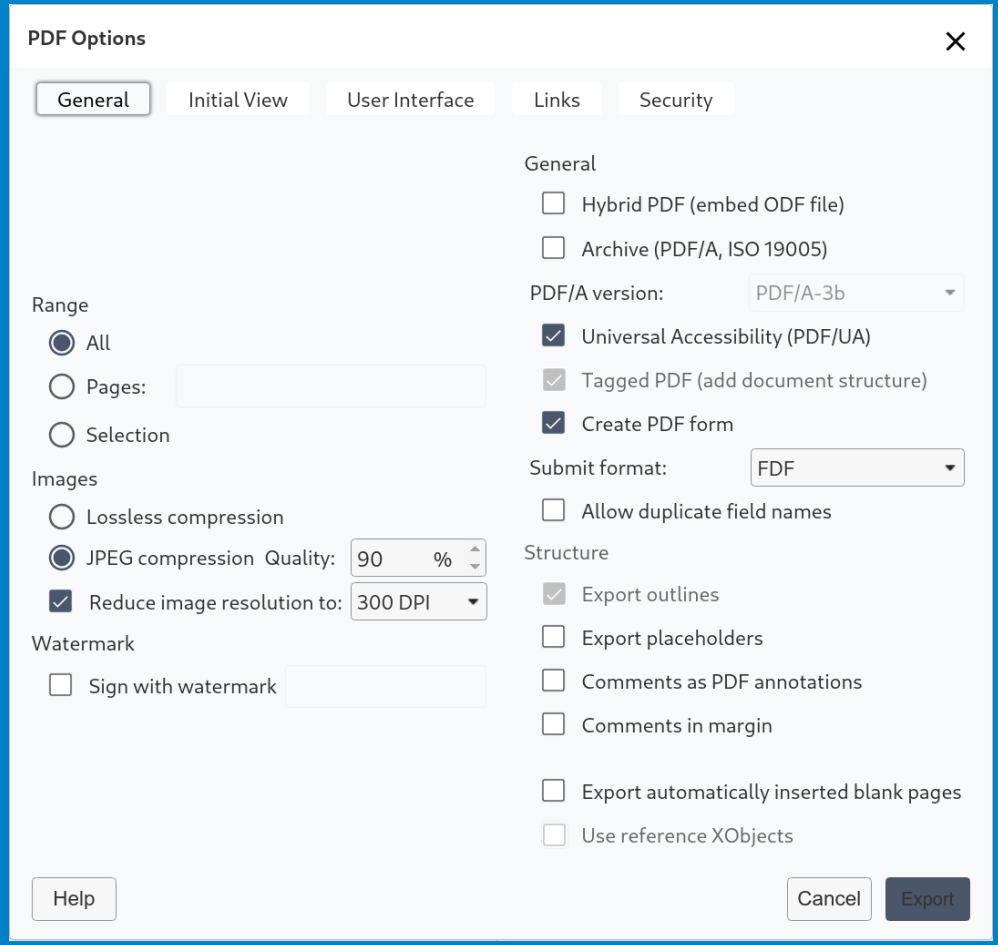
PDF/UA Export

Generating accessible PDFs.

Tagged PDF, PDF forms, Universal Accessibility for PDFs, and many more options when exporting available in last year.



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EPUB Export

Generating electronic books.

Ideal for accessible book readers, as well as many other use-cases.

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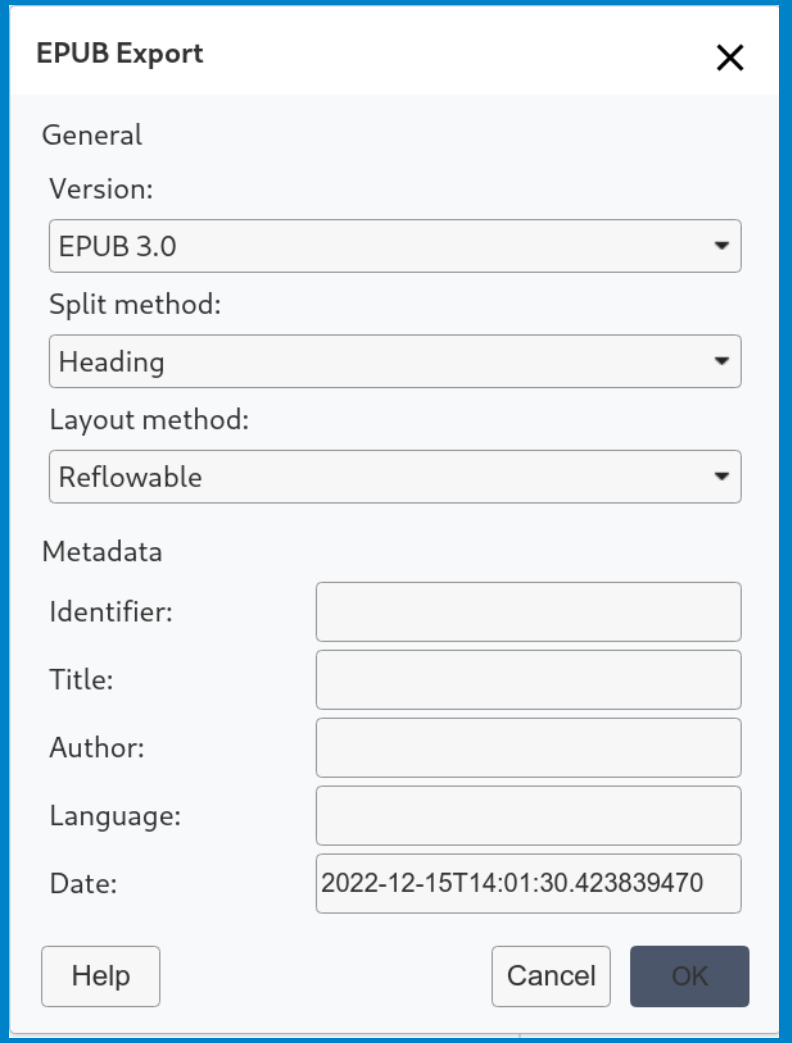

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Performance wins

Better, faster, smaller, snappier

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A faster, slicker experience

Profiling, and improving things on the 23.05 base

- Memory trimming on idle: cleans caches and frees up memory
- Swap out compressed image data as well as uncompressed
- Faster load of large spreadsheets
- Significantly reduced re-rendering (even more pending)
- Style re-thumbnailing redux
- Improved tile pre-loading (with more caching work queued)
- Clamp over-sizing of threads
- Accelerated transparent text rendering
- Avoid background whole document renders
- RLE tile encoding (pending)

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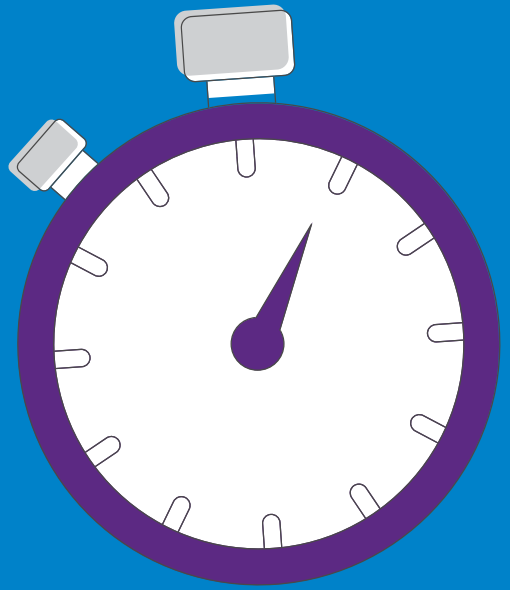
Memory Optimization



Less memory used effectively.

Run-length encoding delta cache makes it far smaller and faster to use. Compressed image data swapping to reduce footprint. Trimming caches & allocators on idle. Larger compressed browser-side tile cache. Monotonic timestamp cache synchronization & expiry.

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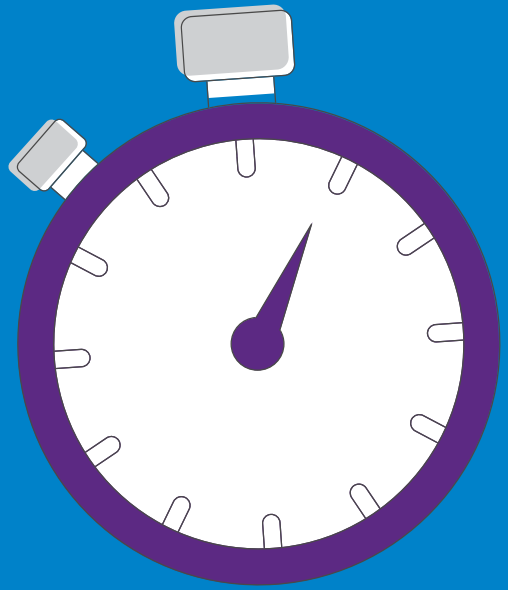
CPU Optimization



Saving power, and going faster.

Reduced invalidation & re-rendering. Improved user prediction & pre-loading for better latency. Accelerated style previewing & thumbnailing. Optimized pixel manipulation & un-pre-multiplication. Accelerated scrolling & Javascript rendering.

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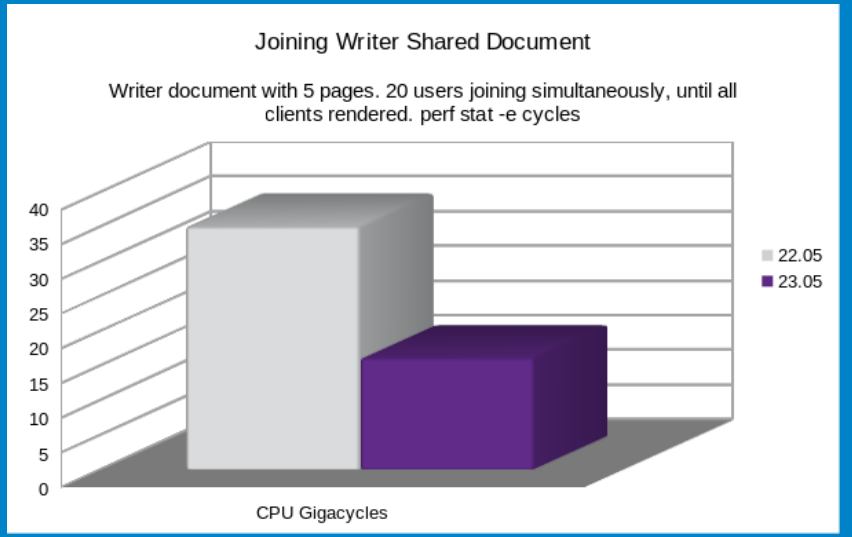
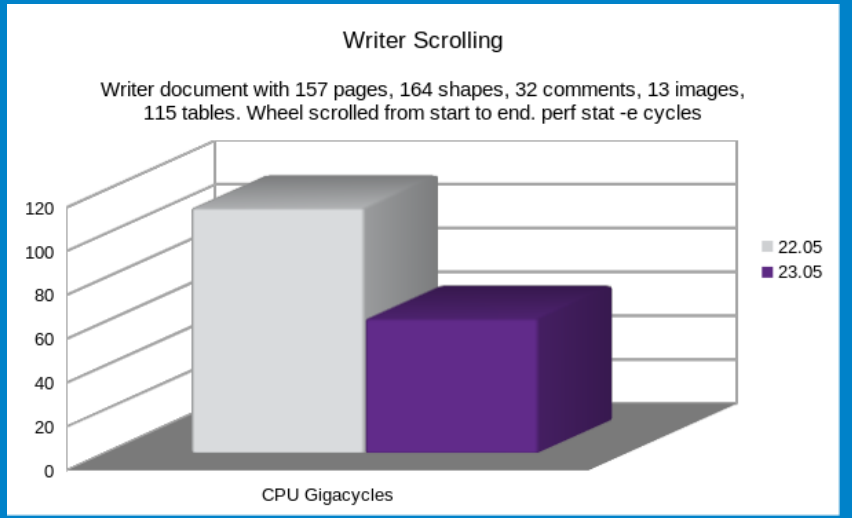
Performance Tuning

Much faster for many operations – for example – multiple users to join a shared Writer document and scroll through a long, heavy Writer document.





Smaller is better!

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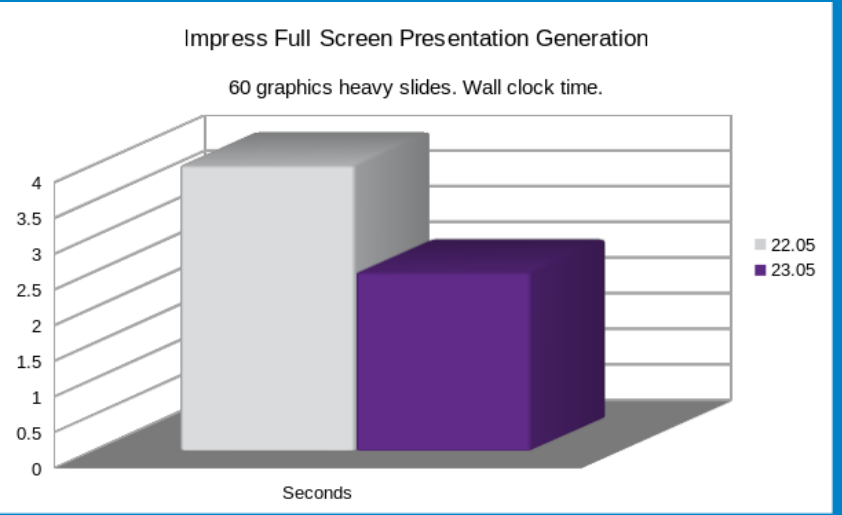
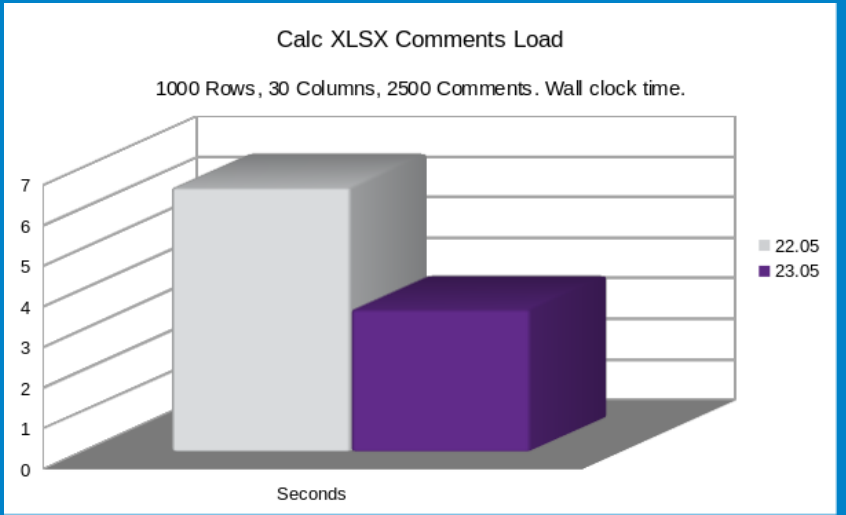
Performance Tuning

Reduced time to load graphic heavy Impress slide decks, and comment heavy Calc spreadsheets.





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New Interoperability Features

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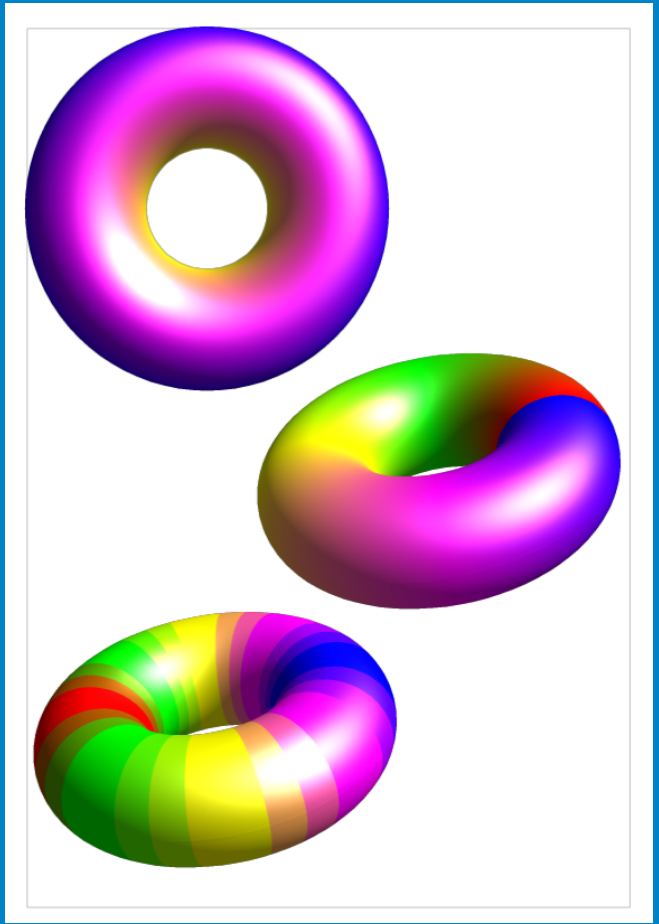
Multi-Stop Gradients

Improved rendering

The renderer has been enhanced and can now handle even more complex gradients. You can now turn up the visual appeal of your document by incorporating multi-stop gradients into shapes, borders, and other elements.



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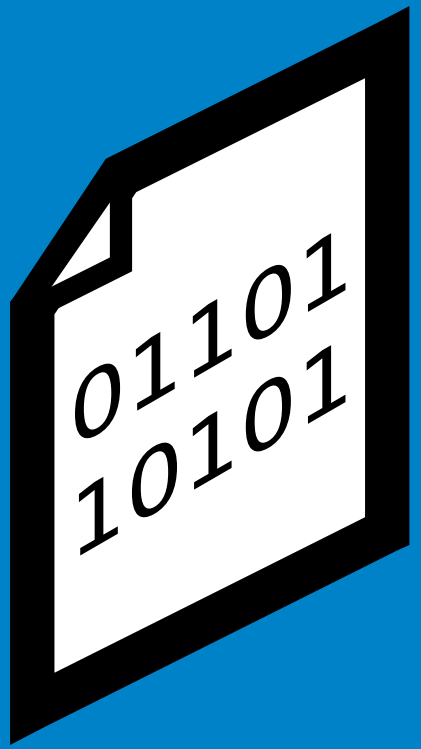
64bit Zip Support



Handling huge data sets.

The Zip64 standard extends numerous internal limitations in the XLSX and ODS formats used to compress documents. Editing and working with huge spreadsheets is now possible.

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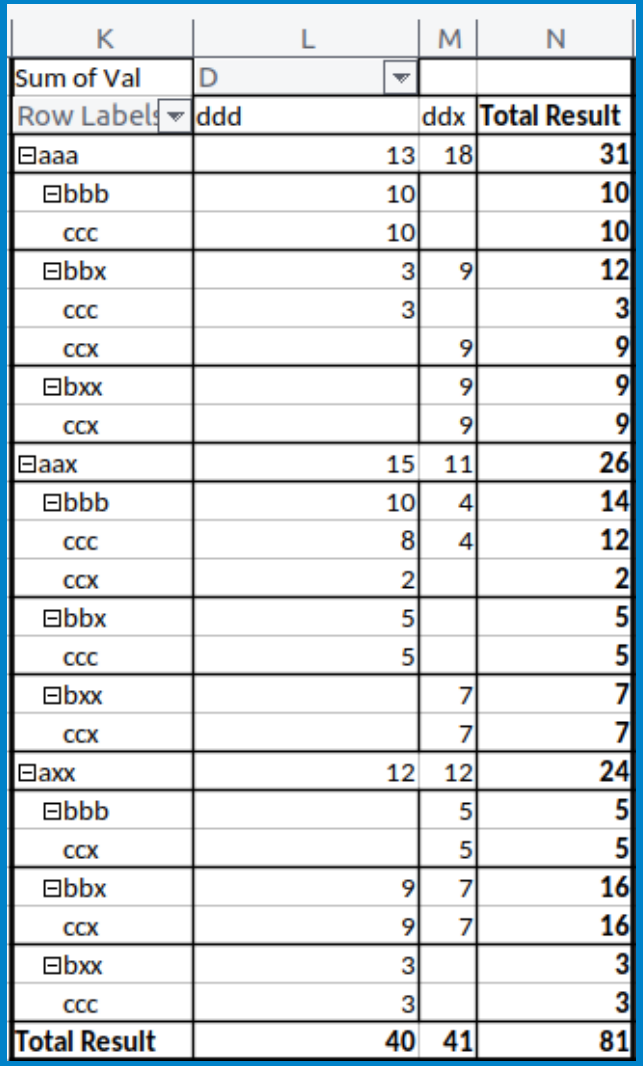
Compact Pivot Tables

Calc spreadsheets

Preserve the compact view and layout of Pivot Tables created in Excel with a more compact layout avoiding the possibility of incorrect cell references.



K	L	M	N
Sum of Val	D		
Row Labels	ddd	ddx	Total Result
⊟aaa	13	18	31
⊟bbb	10		10
ccc	10		10
⊟bbx	3	9	12
ccc	3		3
ccx		9	9
⊟bxx		9	9
ccx		9	9
⊟aax	15	11	26
⊟bbb	10	4	14
ccc	8	4	12
ccx	2		2
⊟bbx	5		5
ccc	5		5
⊟bxx		7	7
ccx		7	7
⊟axx	12	12	24
⊟bbb		5	5
ccx		5	5
⊟bbx	9	7	16
ccx	9	7	16
⊟bxx	3		3
ccc	3		3
Total Result	40	41	81

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K	L	M	N	O	P
Sum of Val			D		
A	B	C	ddd	ddx	Total Result
aaa			13	18	31
	bbb		10		10
		ccc	10		10
	bbx		3	9	12
		ccc	3		3
		ccx		9	9
	bxx			9	9
		ccx		9	9
aax			15	11	26
	bbb		10	4	14
		ccc	8	4	12
		ccx	2		2
	bbx		5		5
		ccc	5		5
	bxx			7	7
		ccx		7	7
axx			12	12	24
	bbb			5	5
		ccx		5	5
	bbx		9	7	16
		ccx	9	7	16
	bxx		3		3
		ccc	3		3
Total Result			40	41	81

K	L	M	N
Sum of Val	D		
Row Labels	ddd	ddx	Total Result
⊟aaa	13	18	31
⊟bbb	10		10
ccc	10		10
⊟bbx	3	9	12
ccc	3		3
ccx		9	9
⊟bxx		9	9
ccx		9	9
⊟aax	15	11	26
⊟bbb	10	4	14
ccc	8	4	12
ccx	2		2
⊟bbx	5		5
ccc	5		5
⊟bxx		7	7
ccx		7	7
⊟axx	12	12	24
⊟bbb		5	5
ccx		5	5
⊟bbx	9	7	16
ccx	9	7	16
⊟bxx	3		3
ccc	3		3
Total Result	40	41	81

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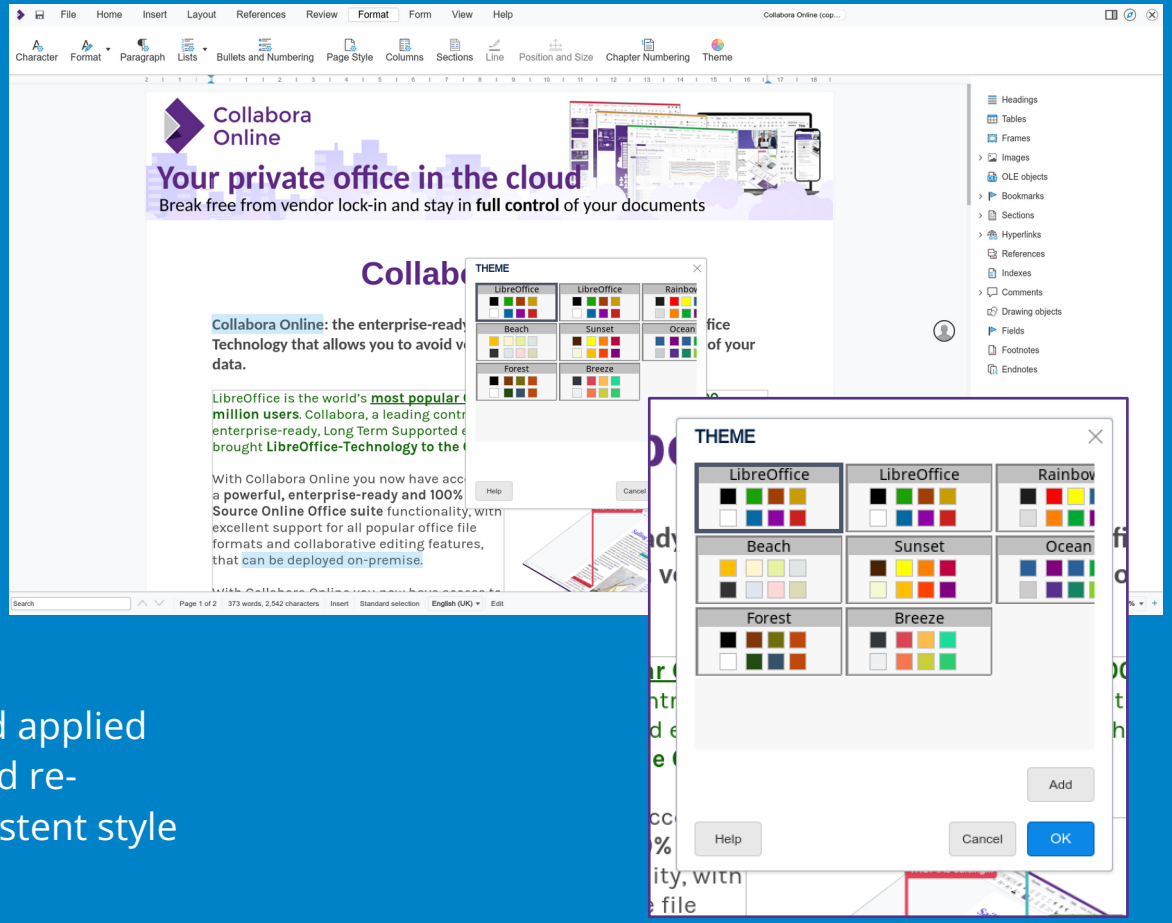
Document Themes

Controlling branding.

Document themes can be configured and applied to a whole document to easily change and re-purpose the appearance, giving it a consistent style and branding.



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Title

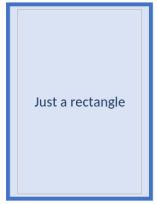
Subtitle

1. Heading 1 – 1 / Paragraph Color

Podcasting operational change management inside of workflows to establish a framework. Taking seamless key performance indicators offline to *maximise* the long tail. Keeping your eye on the ball while performing a deep dive on the start-up mentality to derive convergence on cross-platform integration.

1.1 Heading 2 – 1

Leverage agile frameworks to provide a robust synopsis for high level overviews. Iterative approaches to corporate strategy foster collaborative thinking to further the overall value proposition. **Organically** grow the **holistic** world view of disruptive innovation via workplace diversity and empowerment.



1.1.1 Heading 3

Bring to the table win-win survival strategies to ensure proactive domination. At the end of the day, going forward, a new normal that has evolved from generation X is on the runway heading towards a streamlined cloud solution. User generated content in real-time will have multiple touchpoints for offshoring.

1.2 Heading 2 – 2

Capitalize on low hanging fruit to identify a ballpark value-added activity to beta test. Override the digital divide with additional clickthrough from DevOps. Nanotechnology immersion along the information highway will close the loop on focusing solely on the bottom line.

What?

Title

Subtitle

1. Heading 1 – 1 / Paragraph Color

Podcasting operational change management inside of workflows to establish a framework. Taking seamless key performance indicators offline to *maximise* the long tail. Keeping your eye on the ball while performing a deep dive on the start-up mentality to derive convergence on cross-platform integration.

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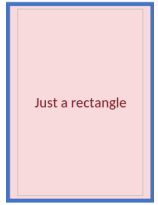

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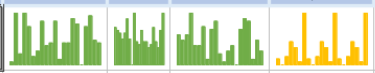
What?

Car Inventory Example

Branch	Car model	Show Room	Used	Repair Shop	Cost
City AA	Model 01	2	14	12	10,000.00 €
City BB	Model 02	20	13	10	5,000.00 €
City CC	Model 03	5	12	12	12,000.00 €
City AA	Model 04	20	10	20	25,000.00 €
City BB	Model 05	15	12	8	20,000.00 €
City CC	Model 06	4	17	8	7,500.00 €
City AA	Model 07	6	10	15	50,000.00 €
City BB	Model 01	17	1	3	10,000.00 €
City CC	Model 02	8	19	14	5,000.00 €
City AA	Model 03	9	9	17	12,000.00 €
City BB	Model 04	17	8	5	25,000.00 €
City CC	Model 05	3	13	2	20,000.00 €
City AA	Model 06	9	9	6	7,500.00 €
City BB	Model 07	9	9	8	50,000.00 €
City CC	Model 01	18	7	1	10,000.00 €
City AA	Model 02	16	8	14	5,000.00 €
City BB	Model 03	1	14	18	12,000.00 €
City CC	Model 04	15	9	17	25,000.00 €
City AA	Model 05	19	7	3	20,000.00 €
City BB	Model 06	10	13	10	7,500.00 €
City CC	Model 07	9	19	6	50,000.00 €

Sparklines for the above data



This is a text box inside a spreadsheet
Car models
Model 1
Model 2
Model 3
Model 4
Model 5
Model 6
Model 7

Car Inventory Example

Branch	Car model	Show Room	Used	Repair Shop	Cost
City AA	Model 01	2	14	12	10,000.00 €
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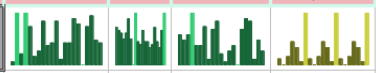
City CC	Model 03	5	12	12	12,000.00 €
City AA	Model 04	20	10	20	25,000.00 €
City BB	Model 05	15	12	8	20,000.00 €
City CC	Model 06	4	17	8	7,500.00 €
City AA	Model 07	6	10	15	50,000.00 €
City BB	Model 01	17	1	3	10,000.00 €
City CC	Model 02	8	19	14	5,000.00 €
City AA	Model 03	9	9	17	12,000.00 €
City BB	Model 04	17	8	5	25,000.00 €
City CC	Model 05	3	13	2	20,000.00 €
City AA	Model 06	9	9	6	7,500.00 €
City BB	Model 07	9	9	8	50,000.00 €
City CC	Model 01	18	7	1	10,000.00 €
City AA	Model 02	16	8	14	5,000.00 €
City BB	Model 03	1	14	18	12,000.00 €
City CC	Model 04	15	9	17	25,000.00 €
City AA	Model 05	19	7	3	20,000.00 €
City BB	Model 06	10	13	10	7,500.00 €
City CC	Model 07	9	19	6	50,000.00 €

Sparklines for the above data



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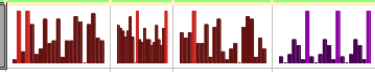
Sparklines for the above data



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Model 3
Model 4
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Model 6
Model 7

Title of the presentation

Subtitle of the presentation

Title of the presentation

Subtitle of the presentation

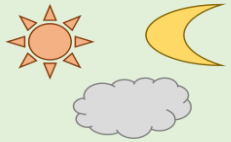
Title of the presentation

Subtitle of the presentation

About

RAINBOW

- Bullet points...
- Points points...
- More...
  - Something important
- And more...
  - Clarification...
  - Details...
  - Emphasis
- And some more points...



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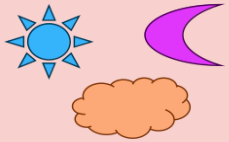

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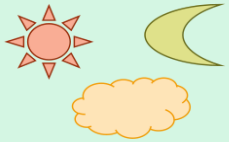

Lorem ipsum

Part 1

- Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
- Maecenas porttitor congue massa.
- Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna.

Part 2

- Nunc viverra imperdiet enim. Fusce est. Vivamus a tellus.
- Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.
- Proin pharetra nonummy pede. Mauris et orci.

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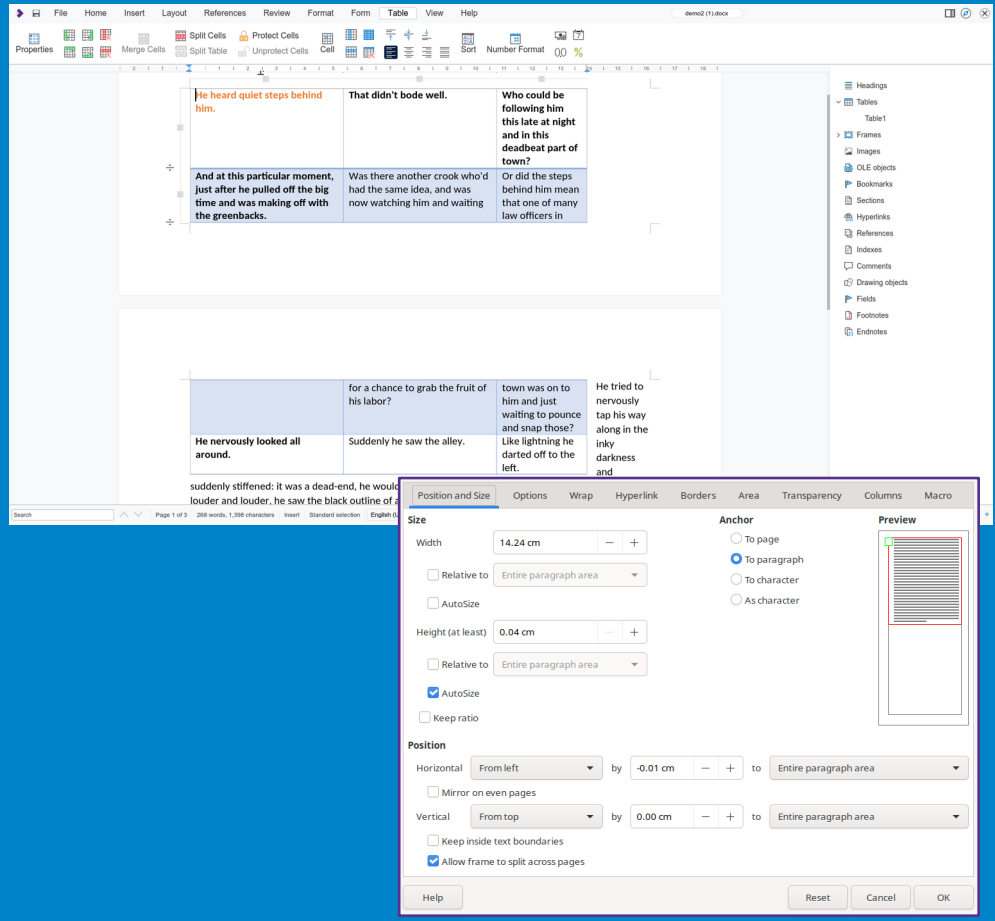
Multi-page Floating Tables

Significantly improves interoperability with tables that have been accidentally floated by users, and that span multiple pages.

Lots of mis-designed Government forms – where tables are used for rendering borders are improved, and rendered better.



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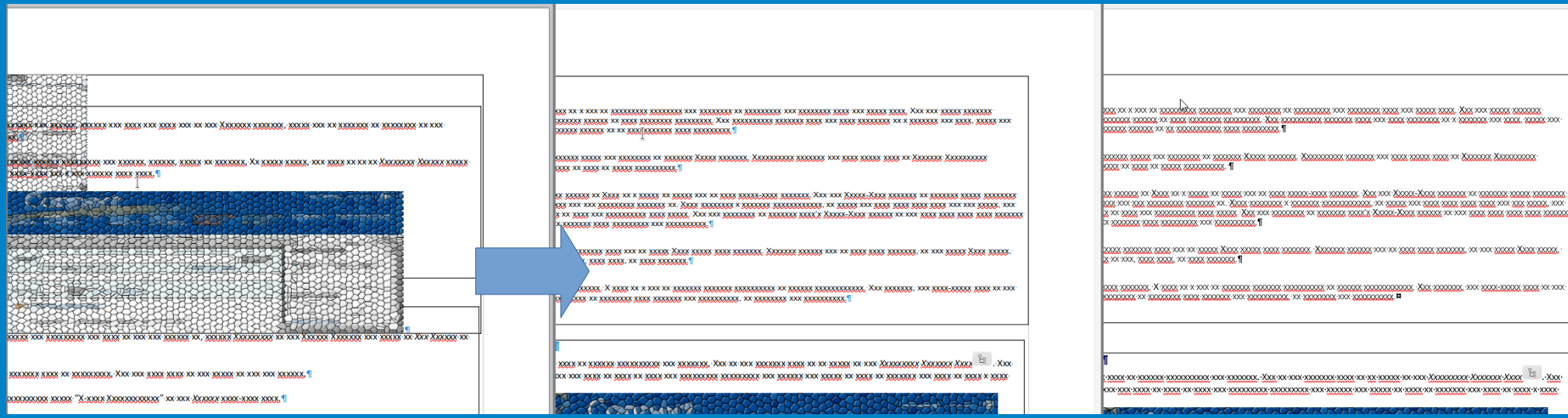
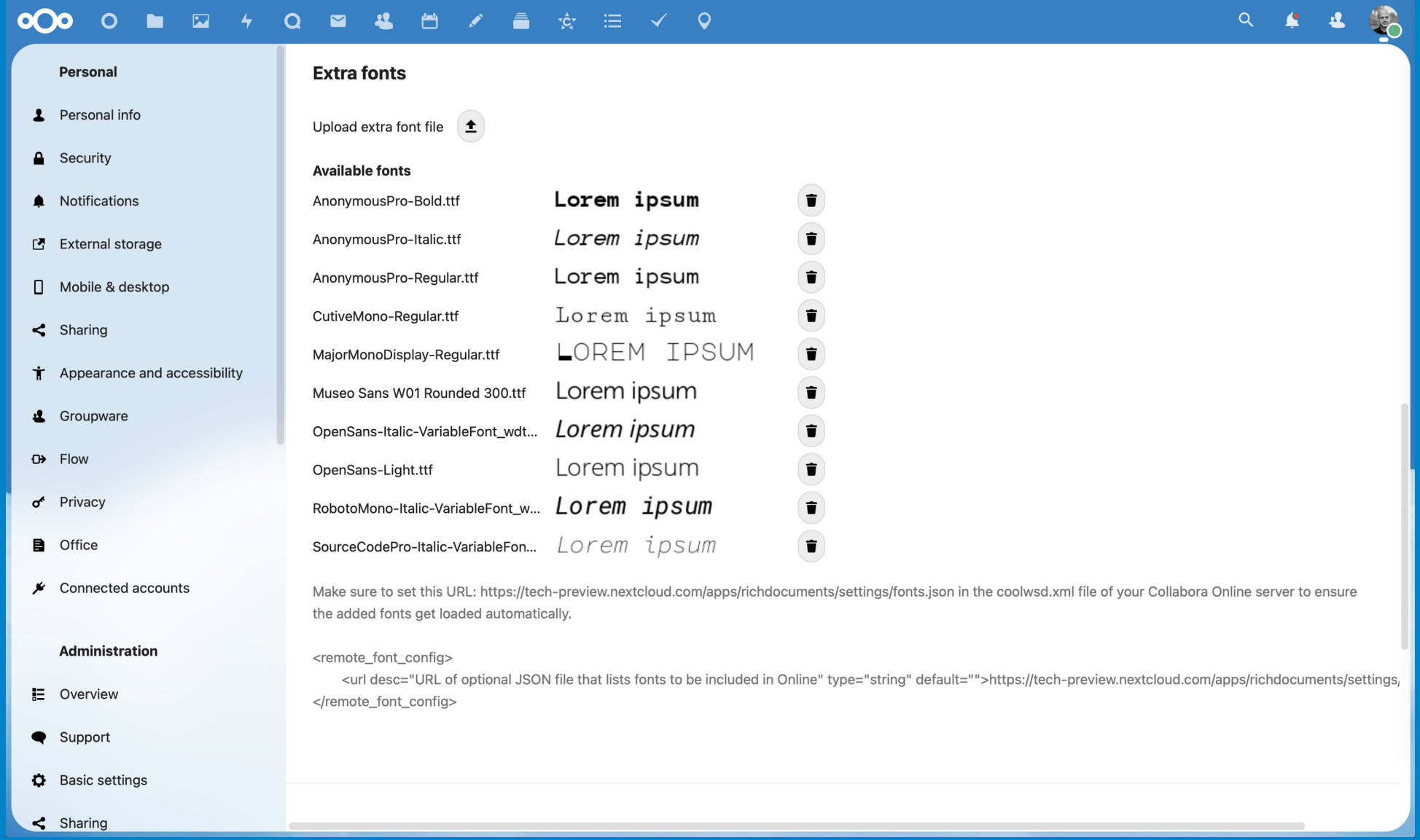
Complex DOCX document with several floating tables: bad, good and reference




Personal
Personal info
Security
Notifications
External storage
Mobile & desktop
Sharing
Appearance and accessibility
Groupware
Flow
Privacy
Office
Connected accounts
Administration
Overview
Support
Basic settings
Sharing
Extra fonts
Upload extra font file
Available fonts
AnonymousPro-Bold.ttf
Lorem ipsum
AnonymousPro-Italic.ttf
Lorem ipsum
AnonymousPro-Regular.ttf
Lorem ipsum
CutiveMono-Regular.ttf
Lorem ipsum
MajorMonoDisplay-Regular.ttf
LOREM IPSUM
Museo Sans W01 Rounded 300.ttf
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OpenSans-Italic-VariableFont_wdt...
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OpenSans-Light.ttf
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SourceCodePro-Italic-VariableFon...
Lorem ipsum
Make sure to set this URL: https://tech-preview.nextcloud.com/apps/richdocuments/settings/fonts.json in the coolwsd.xml file of your Collabora Online server to ensure the added fonts get loaded automatically.
<remote_font_config>
<url desc="URL of optional JSON file that lists fonts to be included in Online" type="string" default="">https://tech-preview.nextcloud.com/apps/richdocuments/settings/
</remote_font_config>

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New Usability Features

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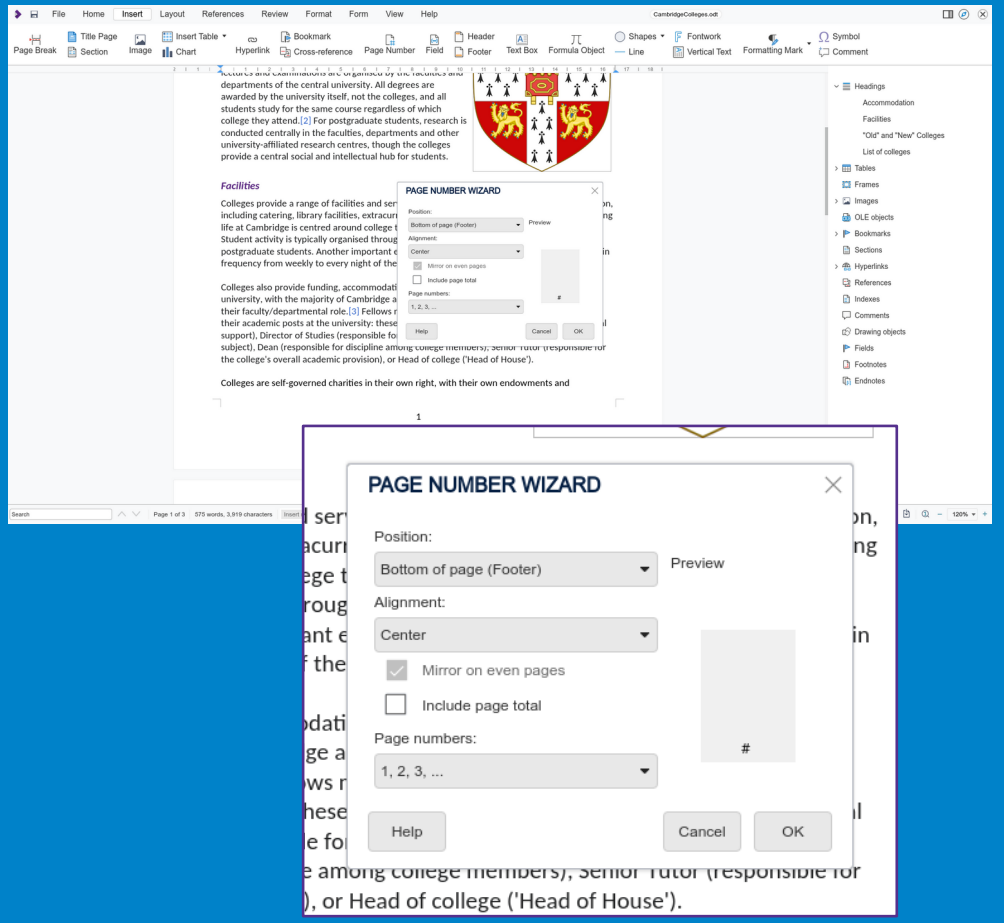
Ergonomic Improvements

Example a simple dialog to insert page numbers:

Combining inserting the required headers, footers, and page number fields into a single, easy to use, familiar dialog for users.

Featuring all the common alignment options, support for a variety of languages, and a preview.



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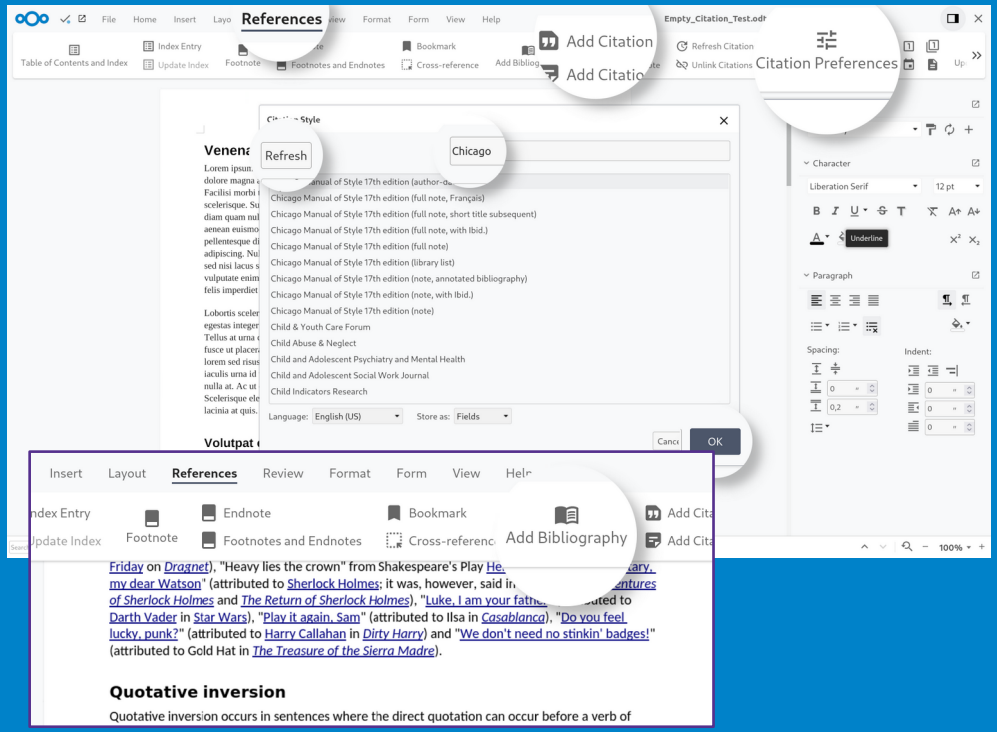
Reference Management & Bibliographic Data with Zotero

Browse all the existing records of your Zotero library - insert, remove, and refresh references, citations, and notes, or automatically generate bibliographies.



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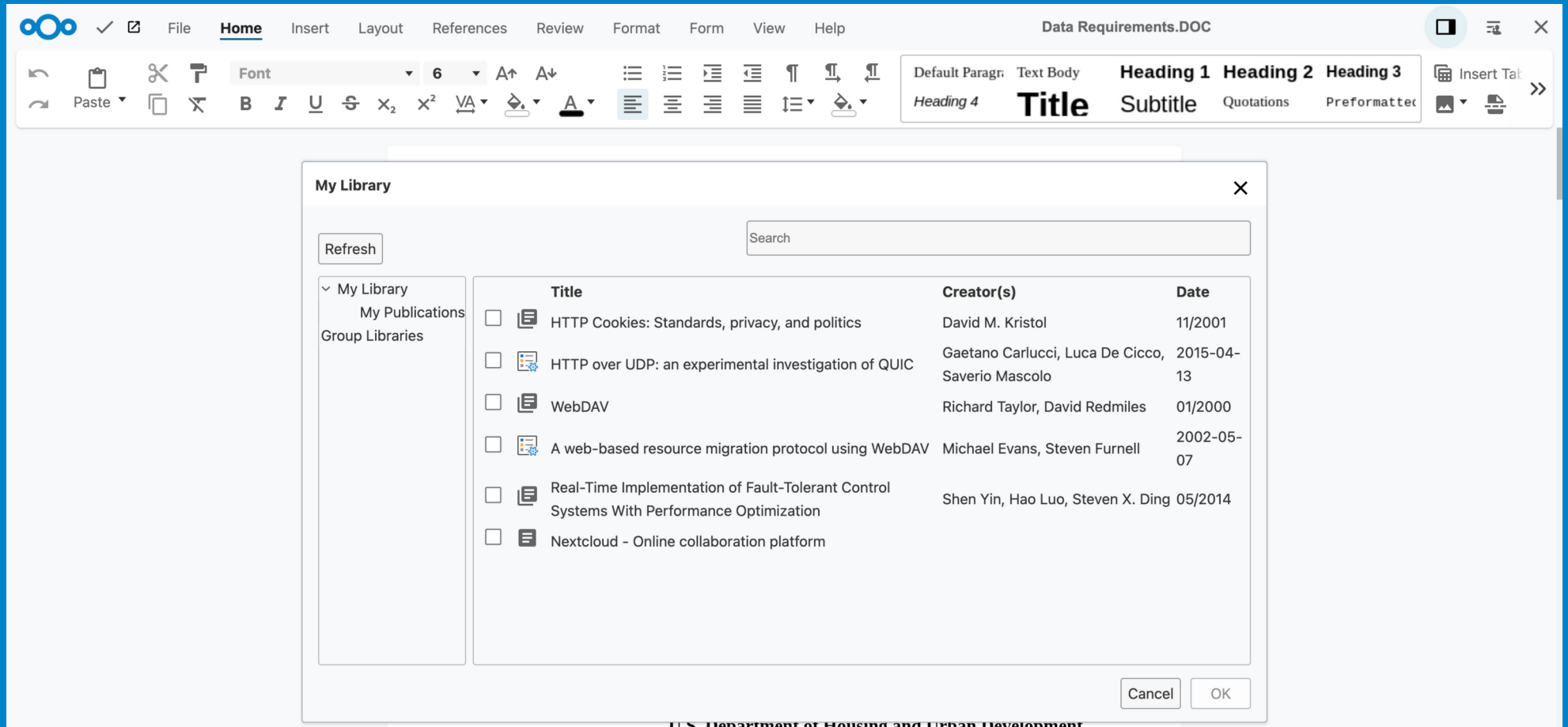
File
Home
Insert
Layout
References
Review
Format
Form
View
Help
Data Requirements.DOC
Paste
Font
6
Default Paragr
Text Body
Heading 1
Heading 2
Heading 3
Heading 4
Title
Subtitle
Quotations
Insert Tab
My Library
Refresh
Search
My Library
My Publications
Group Libraries
Title
Creator(s)
Date
HTTP Cookies: Standards, privacy, and politics
David M. Kristol
11/2001
HTTP over UDP: an experimental investigation of QUIC
Gaetano Carlucci, Luca De Cicco, Saverio Mascolo
2015-04-13
WebDAV
Richard Taylor, David Redmiles
01/2000
A web-based resource migration protocol using WebDAV
Michael Evans, Steven Furnell
2002-05-07
Real-Time Implementation of Fault-Tolerant Control Systems With Performance Optimization
Shen Yin, Hao Luo, Steven X. Ding
05/2014
Nextcloud - Online collaboration platform
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OK
U.S. Department of Housing and Urban Development
Month, Year
TBD

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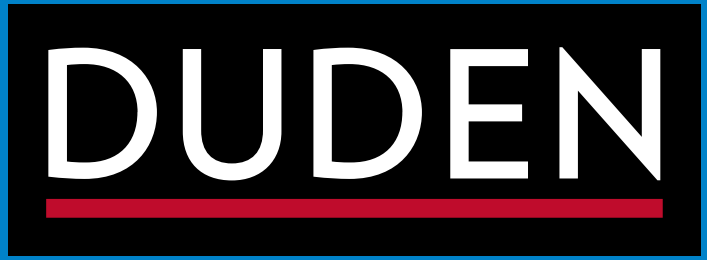
AI Grammar Checking

With LanguageTool & DUDEN

Translating text with DeepL inside a Writer document is as easy as selecting it, clicking the “Translate” button and choosing the target language from dialog.



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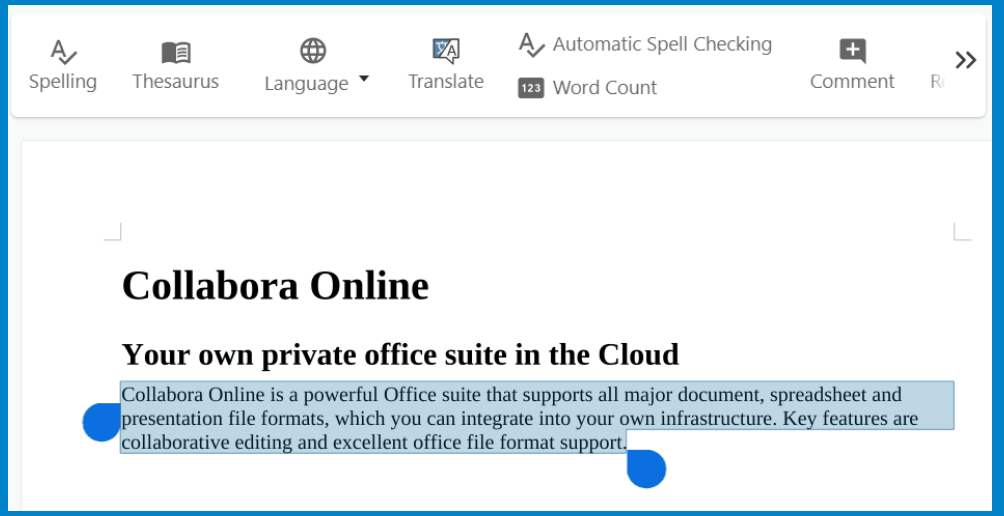
AI Based Translations

Translating text with DeepL inside a Writer document is as easy as selecting it, clicking the “Translate” button and choosing the target language from dialog.



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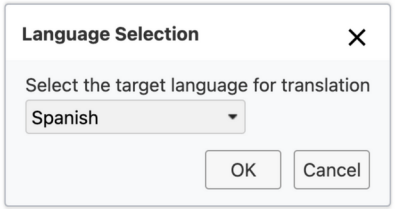
1.6 Points of Contact

1.6.1 Information

Provide a list of the points of organizational contact (POCs) that may be needed by the document user for informational and troubleshooting purposes. Include type of contact, contact name, department, telephone number, and e-mail address (if applicable). Points of contact may include, but are not limited to, helpdesk POC, development/maintenance POC, and operations POC.

1.6.2 Coordination

Provide a list of organizations that require coordination between the project and its specific support function (e.g., installation coordination, security, etc.). Include a schedule for coordination activities.



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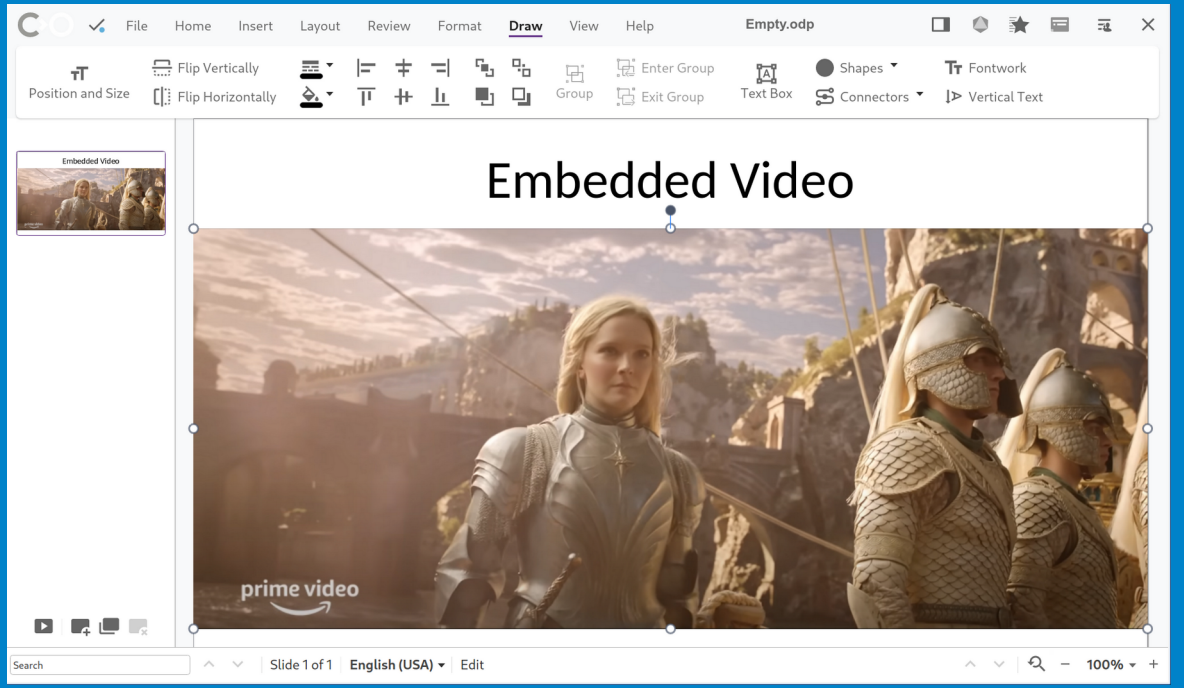
Video Embedding

Include videos in your slides.

Embedding the content of your videos, ensures a smooth, advert-free presentation at the right time.



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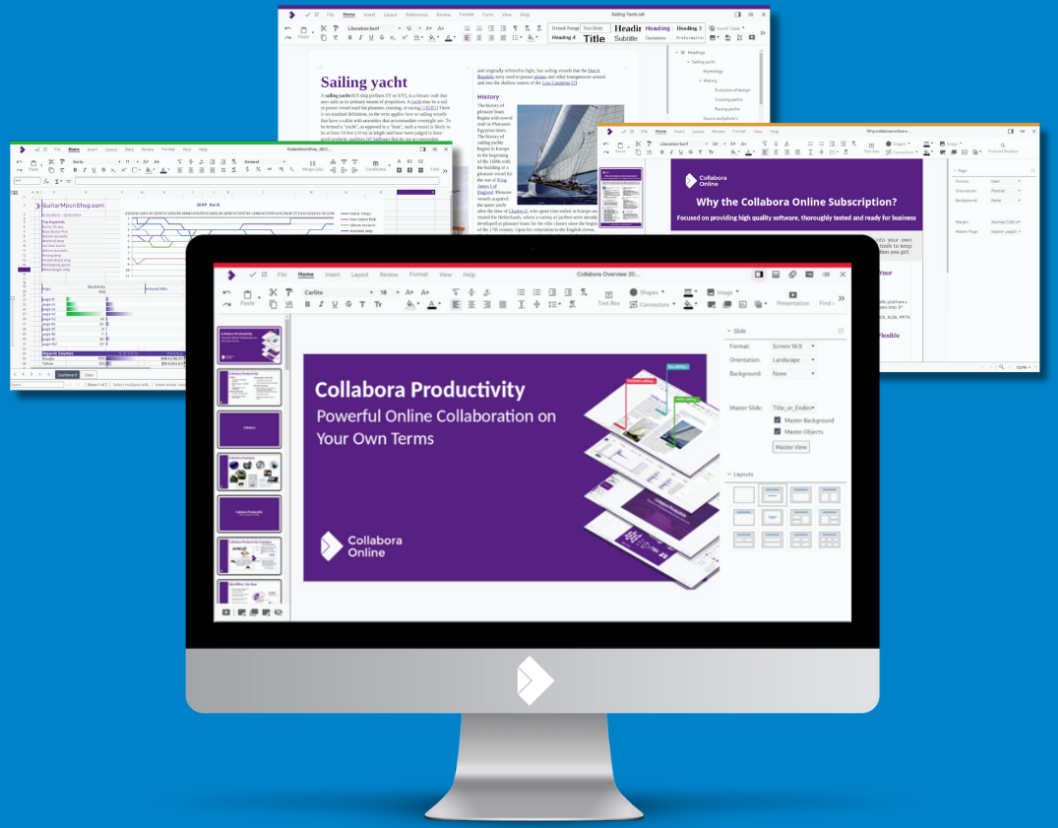
Built with LibreOffice technology

Rich, interoperable, collaborative editing, everywhere.



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Get involved ...

Many features at the interface

Lots of low hanging fruit – easy to fix

Collaborative development

Weekly public calls – all welcome

Thanks for the support of the Nextcloud Community

Shared vision

Open-source

Full-feature, productivity for your teams

Office for the Free World.

On-premise, no compromise in control

Collabora Online

https://collaboraonline.github.io/

Nextcloud

Thank you!

Michael Meeks
General Manager
Collabora Productivity
@michael_meeks

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